# Service Manual

**Notebook Computer** 

CF-Y5



This is the Service Manual for the following areas. M ...for U.S.A. and Canada

# Model No. CF-Y5LWVYZ 1 2

1: Operation System

B: Microsoft® Windows® XP Professional

2: Area

M: Refer to above area table

#### **⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# **Panasonic**®

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# WARNING

#### For U.K.

#### This apparatus must be earthed for your safety.

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe.

For your safety, if you have any doubt about the effective earthing of the power point, consult a qualified electrician.

#### FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 3 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 3 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark  $\diamondsuit$  or the BSI mark  $\heartsuit$  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

#### Warning: THIS APPLIANCE MUST BE EARTHED.

#### **Important**

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth Blue: Neutral Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol (a) coloured GREEN or GREEN-and-YELLOW.

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured BLACK.

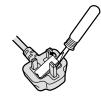
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured RED.

The mains plug on this equipment must be used to disconnect the mains power.

Please ensure that a socket outlet is available near the equipment and shall be easily accessible.

# ■ How to replace the fuse

Open the fuse compartment with a screwdriver and replace the fuse.



#### Warnings

This equipment is not designed for connection to an IT power system.
 (An IT system is a system having no direct connections between live parts and Earth; the exposed-conducive-parts of the electrical installation are earthed.

An IT system is not permitted where the computer is directly connected to public supply systems in the U.K.)

• Disconnect the mains plug from the supply socket when the computer is not in use.

This equipment is produced to BS800/1983.

### LASER SAFETY INFORMATION

#### For U.S.A.

#### Class 1 LASER-Product

This product is certified to comply with DHHS Rules 21 CFR Subchapter J.

This product complies with European Standard EN60825 (or IEC Publication 825)

#### For all areas

This equipment is classified as a class 1 level LASER product and there is no hazardous LASER radiation.

#### Caution

- (1) Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- (2) The drive is designed to be incorporated into a computer-based system or unit which has an enclosing cover. It should never be used as a stand alone drive.

#### Danger:

The serviceman should not remove the cover of drive unit and should not service because the drive unit is a non-serviceable part.

Please check DANGER label on PD-drive unit.

Unplug the AC power cord to the equipment before opening the top cover of the drive.

When the power switch it on, do not place your eyes close to the front panel door to look into the interior of the unit.

#### LASER Specification

Class 1 level LASER Product Wave Length: DVD 658–8 nm CD 775~815 nm

Laser safety information is appropriate only when drive with laser is installed.

# Safety precautions

- 1. Before servicing, unplug the power cord to prevent an electric shock.
- 2. When replacing parts, use only manufacture's recommended components for safety.
- 3. Check the condition of the power cord. Replace if wear or damage is evident.
- 4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.

# Important Safety Instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

# **Lithium Battery**

#### Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored. The battery should only be exchanged by authorized service personnel.

Warning! A risk of explosion from incorrect installation or misapplication may possibly occur.

SAVE THESE INSTRUCTIONS

### -LITHIUM BATTERY $\Delta$ -

#### CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacture.

Discard used batteries according to the manufacturer's instructions.

# LITHIUMBATTERIES A

#### Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben order einen vom Hersteller empfohlenen ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

#### PILE AU LITHIUM 🛆 -

ATTENTION: IL Y A DANGER D'EXPLOSION S' IL Y A REMPLACEMENT INCORRECT DE LA PILE. REMPLACER UNIQUEMENT AVEC UNE PILE DU MÈME TYPE OU D'UN TYPE RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU RÉBUT LES PILES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.

#### For U.S.A. / CANADA



A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

# **Precautions (Battery Pack)**

 Care should be exercised with regard to the following in order to avoid the possibility of overheating, fire or damage.



#### **Avoid Heat**

Do not throw the battery pack into a fire or expose it to excessive heat.



#### **Keep Articles Away**

Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.



#### Do Not Disassemble

Do not insert sharp objects into the battery pack, expose it to bumps or shocks, deform, disassemble, or modify it.



#### Do Not Short

Do not short the positive (+) and negative (-) contacts.



# Avoid Extreme Heat, Cold and Direct Sunlight

Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in an automobile on a sunny day, for example), or in a cold place.



#### Do Not Use With Any Other Computer

The battery pack is rechargeable and was intended for the specified computer or charger. Do not use it with a computer other than the one for which it was designed.



#### Do Not Put into a Microwave

Do not put the battery pack into a microwave oven or a pressurized chamber.



#### **Discontinue Use**

Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the computer or charger and discontinue use.

- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.

- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx.
   95% of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

#### NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 50 °C {32°F to 122 °F}). ( Reference "Battery Power") Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or less.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- The battery pack is a consumable item. If the amount of time the computer can be run off a particular battery pack becomes dramatically shorter and repeated rechargings do not restore its performance, the battery pack should be replaced with a new one.
- When transporting spare batteries inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use.
   Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

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# 1 Specifications

# ■ Main Specifications

Model No.			CF-Y5LWVYZBM		
CPU/ Secondary cache memory			Intel <sup>®</sup> Core <sup>™</sup> Duo Processor Low Voltage L 2400 (1.66 GHz, 2 MB <sup>*1</sup> L2 cache, 667 MHz FSB)		
Chip Set			Mobile Intel® 945 GMS Express chip set		
Main Memory			512 MB <sup>*1</sup> , DDR2 SDRAM (1536 MB <sup>*1</sup> Max.)		
Video Memory			UMA (128 MB <sup>*1</sup> Max.) <sup>*2</sup>		
Hard Disk Drive			60 GB*3		
CD/DVD Drive			USB 2.0 connection interface		
			DVD MULTI Drive built-in, Buffer underrun error prevention function: Supported		
Continuous Da fer Speed*4*5	ta Trans-	Reading*6	●DVD-RAM*7: 2X (4.7 GB*3)/1X (2.6 GB*3) ●DVD-R*8: 4X (Max.) ●DVD-RW: 4X (Max.) ●DVD-ROM: 8X (Max.) ●CD-ROM: 24X (Max.) ●CD-R: 24X (Max.) ●CD-RW: 20X (Max.) ●+R: 4X (Max.) ●+R DL: 4X (Max.) ●+RW: 4X (Max.)		
	Writing*9		●DVD-RAM*7: 2X (4.7GB*3) ●DVD-R: 1X/2X/4X ●DVD-RW: 1X/2X ●+R: 2.4X/4X ●+RW: 2.4X ●CD-R: 4X/8X/8-16X/8-24X ●CD-RW: 4X ●High-Speed CD-RW: 4X/8X/10X ●Ultra-Speed CD-RW: 8X/10X		
Supported Disks/Format*5		Reading	●DVD-ROM (Single Layer, Dual Layer) ●DVD-Video ●DVD-R*8(1.4 GB, 3.95 GB, 4.7 GB)*3 ●DVD-RW (Ver.1.1/1.2 1.4 GB, 4.7 GB, 9.4 GB)*3 ●DVD-RAM*7 (1.4 GB, 2.8 GB, 2.6 GB, 5.2 GB, 4.7 GB, 9.4 GB)*3 ●+R (4.7 GB)*3 ●+R DL (8.5 GB)*3 ●+RW (4.7 GB)*3 ●CD-Audio ●CD-ROM (XA compatible) ●CD-R ●Photo CD (multiple session compatible) ●Video CD ●CD-EXTRA ●CD-RW ●CD-TEXT		
		Writing	●DVD-RAM*7 (1.4GB, 2.8GB, 4.7GB, 9.4GB)*3 ●DVD-R (1.4GB, 4.7GB for General)*3		
			●DVD-RW (Ver.1.1/1.2 4.7GB, 9.4GB)*3 ●+R (4.7GB*3) ●+RW (4.7GB*3) ●CD-R ●CD-RW		
Display Method			14.1 SXGA+ type (TFT) (1400 × 1050 dots)		
Internal LCD			65,536/16,777,216 colors (1400 × 1050 dots)*10		
External Displa	ay <sup>*11</sup>		65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 768 dots/1280 × 1024 dots/1400 × 1050 dots/1600 × 1200 dots/2048 × 1536 dots (60 Hz)*12)		
Simultaneous E nal Display*11	Display on	LCD + Exter-	65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 768 dots/1280 × 1024 dots/1400 × 1050 dots)*10		
Wireless LAN			Intel® PRO/Wireless 3945 ABG Network Connection (next page)		
Bluetooth™			(next page)		
LAN <sup>*13</sup>			IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX		
Modem			Data: 56 kbps (V.92) FAX: 14.4 kbps		
Sound			WAVE and MIDI playback, Intel <sup>®</sup> High Definition Audio subsystem support, Stereo Speakers (built in)		
Security Chip			TPM (TCG V1.2 compliant)*14		
Card Slots F	C Card SI	ot	× 1, Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA		
9	SD Memor	y Card Slot <sup>*15</sup>	× 1, Data transfer rate = 8 MB per second		
RAM Module Slo			× 1, DDR2 SDRAM, 172-pin, 1.8 V, Micro DIMM, PC2-4200 Compliant*16		
Interface			USB Ports × 2 (USB2.0 × 2)*17 / Modem Port (RJ-11) / LAN Port (RJ-45) *13 / External Display Port: Mini Dsub 15-pin female / Microphone Jack: Miniature jack, 3.5 DIA / Headphone Jack: Miniature jack, 3.5 DIA / Mini Port Replicator connector: Dedicated 50-pin male		
Keyboard/Pointing Device			87 keys/Touch Pad		
Power Supply			AC adaptor or Battery pack		
AC Adaptor*18			Input: 100 V - 240 V AC, 50 Hz/60 Hz Output: 16 V DC, 3.75 A		
Battery Pack			Li-ion 10.65 V, 5.7 Ah		
Operating Time*19			Approx. 5 hours - 8 hours *20 (Approx. 6 hours *21) (Disable Economy Mode (ECO))		
Charging Time*22			Approx. 5 hours (Power off)/Approx. 6.5 hours (Power on)		

Model No.			CF-Y5LWVYZBM		
Power Consumption*23			Approx. 35 W*24 / Approx. 60 W (maximum when recharging in the ON state)		
Physical Dimensions (W × H × D)		H × D)	309.6 mm × 28 mm (at the front)/44.5 mm (at the rear) × 245.5 mm (excluding protrusion) {12.2 " × 1.1 " / 1.8 " × 10.0 "}		
Weight*25			Approx. 1530 g {3.4 lb.}		
Environment	Operation	Temperature	5°C to 35°C {41°F to 95°F}		
		Humidity	30% to 80% RH (No condensation)		
	Storage	Temperature	-20°C to 60°C {-4°F to 140°F}		
		Humidity	30% to 90% RH (No condensation)		
OS*26			Microsoft® Windows® XP Professional Service Pack 2 with Advanced Security Technologies (NTFS File system)		
Pre-installed Software*26			Microsoft® Internet Explorer 6 Service Pack 2 / DirectX 9.0c /Microsoft® Windows® Media Player 10 / Microsoft® Windows® Movie Maker 2.1 / Microsoft® .NET Framework 1.1 SP1/2.0 / Adobe Reader / Intel® PROSet/Wireless Software <only for="" lan="" model="" wireless="" with=""> / SD Utility / Icon Enlarger / Loupe Utility / Touch Pad Utility / DMI Viewer / PC Information Viewer / WinDVD 5 (OEM Version) / B's Recorder GOLD8 BASIC / B's CLiP 6*27 / Hotkey Settings / Optical Disc Drive Letter-Setting Utility / Optical Disc Drive Power-Saving Utility / Wireless Switch Utility <only bluetooth="" for="" lan="" model="" wireless="" with=""> / Economy Mode (ECO) Setting Utility / Battery Recalibration Utility / Infineon TPM Professional Package V2.5*28 / Recover Pro 6*28  Setup Utility / Hard Disk Data Erase Utility*29 / PC-Diagnostic Utility*30</only></only>		

#### ■ Wireless LAN

Data Transfer Rates	IEEE802.11a: 54/48/36/24/18/12/9/6 Mbps (automatically switched)*31 IEEE802.11b: 11/5.5/2/1 Mbps (automatically switched)*31 IEEE802.11g: 54/48/36/24/18/12/9/6 Mbps (automatically switched)*31
Standard Supported	IEEE802.11a/IEEE802.11b/IEEE802.11g
Transmission Method	OFDM system, DS-SS system
Wireless Channels Used	IEEE802.11a: Channels 36/40/44/48/52/56/60/64/149/153/157/161/165 IEEE802.11b/ IEEE802.11g: Channels 1 to 11
RF Frequency Band	IEEE802.11a: 5.18 - 5.32 GHz, 5.745 - 5.825 GHz IEEE802.11b/ IEEE802.11g: 2412 - 2462 MHz

#### ■ Bluetooth™

Bluetooth Version	2.0 + EDR
Transmission Method	FHSS system
Wireless Channels Used	Channels 1 to 79
RF Frequency Band	2.402-2.48 GHz
Power Class	Class 1

- \*1 1 MB = 1,048,576 bytes
- \*2 A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user.
- $^{*3}$  1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer GB.
- Data transfer speeds indicate values measured by Matsushita Electric Industrial Co., Ltd. The data transfer rate of DVD per 1X speed is 1,350 KB/s. The data transfer rate of CD per 1X speed is 150 KB/s.
- \*5 Performance of CD-R, CD-RW, DVD-RAM, DVD-R, DVD-RW, +R, +R DL, and +RW cannot be guaranteed depending on writing status and recording format. Also, some data cannot be played back depending on the disk, settings, and environment being used.
  - Does not support writing to DVD-R DL/+R DL (dual layer disks) or reading from DVD-R DL.

- \*6 If an unbalanced disk (e.g., a disk with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disk is rotating.
- \*7 Only non-cartridge type or removable cartridge type can be used.
  When writing to DVD-RAM, use only disks up to 3x. This application cannot be used with 5x DVD RAM media (2.5x).
  - When writing to DVD-RAM, use only disks up to 3x. This application cannot be used with 5x DVD-RAM media (2-5x disks, etc.).
- DVD-R is compatible with 4.7 GB (for General) playback. DVD-R (for Authoring) playback is compatible with disks recorded using Disk-at-Once recording.
- \*9 Depending on the disk, the writing speed may become slower.
- \*10 A 16,777,216 color display is achieved by using the dithering function.
- \*11 Display may be impossible using some connected external displays.

- \*12 When using an external display with a resolution of 2048 x 1536 dots, use a display that supports a 60Hz refresh rate. If an external display that does not support a 60Hz refresh rate is used, images may not be displayed properly.
- \*13 Some devices cannot be used depending on the port type.
- \*14 For information on TPM, click [start] [Run] and input "c:\util\drivers\tpm\README.pdf", and refer to the *Installation Manual* of "Trusted Platform Module (TPM)".
- \*15 Operation has been tested and confirmed using Panasonic SD Memory Cards with a capacity of up to 2 GB. The transfer rate using the SD Memory Card slot on this computer is 8 MB per second. (This is a theoretical value, and differs from actual speeds.)

  The transfer rate is 8 MB per second even if you use an SD Memory Card that supports high-speed transfer rates. Operation on other SD equipment is not guaranteed. This computer is not compatible with MultiMediaCards or SDHC Memory Cards.
  Do not insert these kinds of cards.
- \*16 Only a RAM module designed for DDR2 (PC2-4200) can be added (Panasonic: CF-BAW0512U, CF-BAW1024U). JEDEC standard 214 pin Micro DIMM cannot be used. PC2100 / PC2700 172 pin Micro DIMM cannot be used. If a PC2-3200 RAM module is installed, the main memory processing speed may become slower.
- \*17 Does not guarantee operation of all USB-compatible peripherals.
- \*18 <Only for North America> The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord.

\*19 Varies depending on the usage conditions, or when an optional device is attached. Measured when the power saving function on the USB2.0 USB Root Hub is set to on. (At the time of purchase, the power saving function is activated.) When Economy Mode (ECO) is enabled, the operating time becomes approximately 20% shorter than when it is disabled.

\*20 Measured using BatteryMark TM Version 4.0.1 (LCD brightness: Maximum - Minimum).

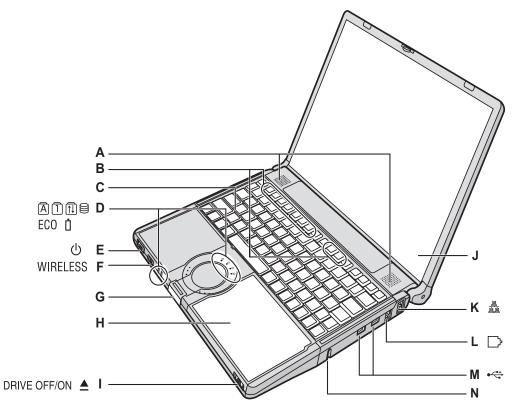
- \*21 Measured using MobileMark<sup>™</sup> 2005 (LCD brightness : 60 cd/m<sup>2</sup>).
- \*22 Varies depending on the usage conditions, CPU speed, etc. It may take a long time to charge a fully discharged battery.
- \*23 Approx. 1.5 W when the battery pack is fully charged (or not being charged) and the computer is off.
- \*24 Rated power consumption.

23-E-1

- \*25 Average value. May differ depending on models.
- \*26 Operations of this computer are not guaranteed except for the pre-installed OS.
- \*27 Preinstalled B's CLiP does not support CD-R, DVD-R, +R and DVD-RAM.
- \*28 Must be installed before use.
- \*29 The Product Recovery DVD-ROM is required.
- \*30 For startup methods, refer to "Hardware Diagnostics".
- \*31 These are speeds specified in IEEE802.11a+b+g standards. Actual speeds may differ.

20-M-2-1

# 2 Names and Functions of Parts



A:Speakers

**B**:Function Key

C: Keyboard

D:LED Indicator

🖹 : Caps lock

1 : Numeric key (NumLk)

1 : Scroll lock (ScrLk)

: Hard disk drive status

ECO: Economy Mode (ECO) status

: Battery status

#### E: Power Switch

#### **Power Indicator**

- · Off: Power off/Hibernation
- · Green: Power on
- Blinking green: Standby

#### F: Wireless Switch

<Only for model with wireless LAN/Bluetooth>
"Wireless LAN"

#### G ·I atch

When closing the display, press down firmly from above until the latch is firmly closed (locked).



When closing the disk cover, press down near the drive power/open switch (position of the arrow) to ensure that the cover is locked.

#### H:CD/DVD Drive

#### I: CD/DVD Drive Power/Open Switch

- Slide the switch to the right to open the disk cover.
- Slide the switch to the left to turn on/off the drive power.

#### **CD/DVD Drive Indicator**

- Off: Drive power is off.
- · Green: Drive power is on, but the drive is not accessed.
- Blinking green: Drive power is on, and the drive is being accessed.

#### J:LCD

#### K:LAN Port

If the Mini Port Replicator is connected to the computer, connect the LAN cable to the LAN port on the Mini Port Replicator. You cannot use the LAN port on the computer.

#### L: Modem Port

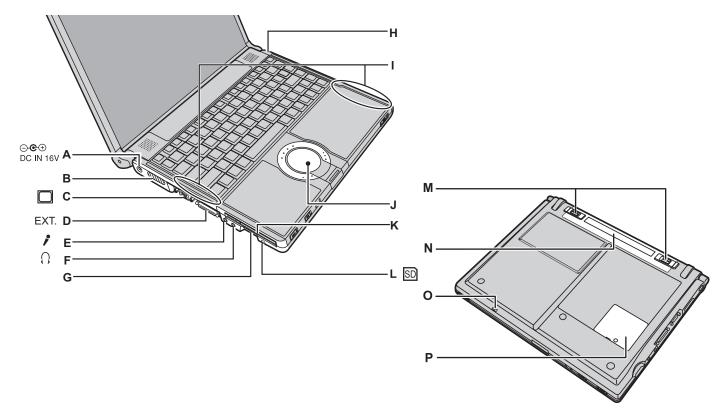
- Be sure to use the included modem telephone cable, and insert the ferrite core side of modem telephone cable into the modem port on the computer.
- Do not move/remove the ferrite core of modem telephone cable.



#### M: USB Ports

#### N: Security Lock

You can connect a Kensington cable. Refer to the instruction manual of the cable. The security lock and cable is atheft prevention device. Matsushita Electric Industrial Co., Ltd. will bear no responsibility in the event of theft.



A :DC-IN Jack
B :Ventilation Hole

C : External Display Port

If the Mini Port Replicator is connected to the computer, connect the external display to the external display port on the Mini Port Replicator. You cannot use the external display port on the computer.

D: Mini Port Replicator Connector Connect the Mini Port Replicator (optional).

E: Microphone Jack

A condenser microphone can be used. If other types of microphones are used, audio input may not be possible, or malfunctions may occur as a result.

• When recording in stereo using a stereo microphone

Double-click in the notification area, click [Options] - [Properties], and add a check mark for [Recording], click [OK] - [Options] - [Advanced Controls] - [Advanced], remove a check mark for [Mono Microphone], and then click [Close].

 When using a monaural microphone with a 2-terminal plug With the settings outlined above, only audio on the left track will be recorded.

When monitoring the microphone audio using headphones, sounds on the left track cannot be heard, regardless of the above settings. This is a result of the computer's specifications, and is not a malfunction. F: Headphone Jack

You can connect headphones or amplified speakers. When they are connected, audio from the internal speakers is not heard.

**G** :SD Memory Card Slot

**H:Bluetooth Antenna** 

<Only for model with Bluetooth>

I: Wireless LAN Antenna

J : Touch Pad

K:PC Card Slot

: SD Memory Card Indicat Blinking: During access

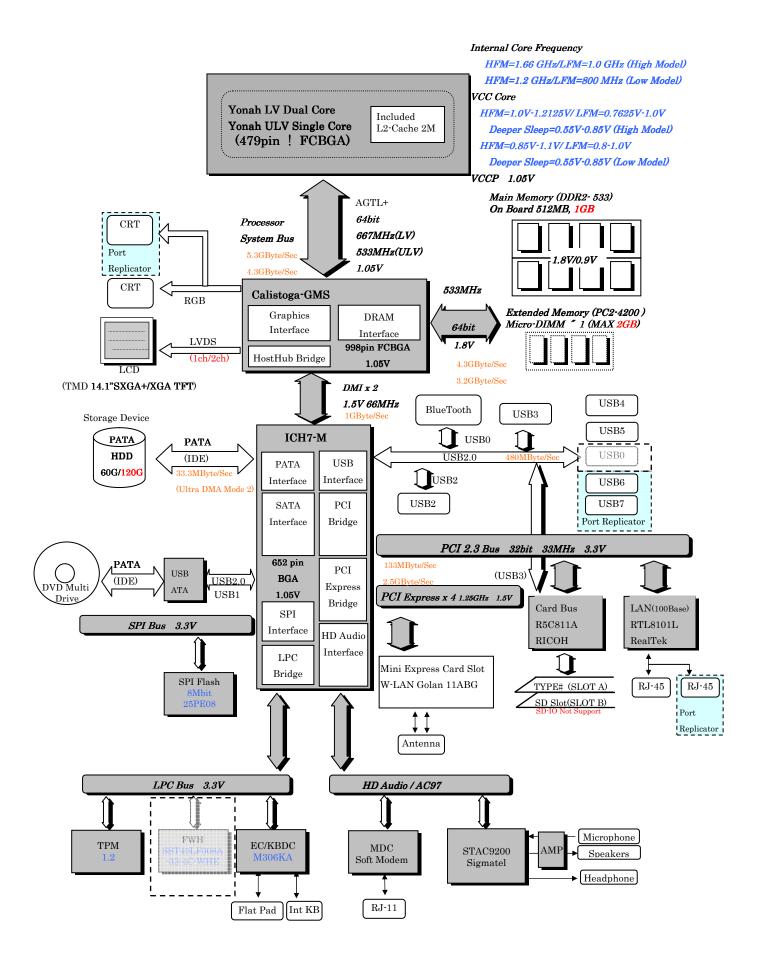
M :Battery Latches

N : Battery Pack

O :Emergency Hole

P:RAM Module Slot

# 3 Block Diagram

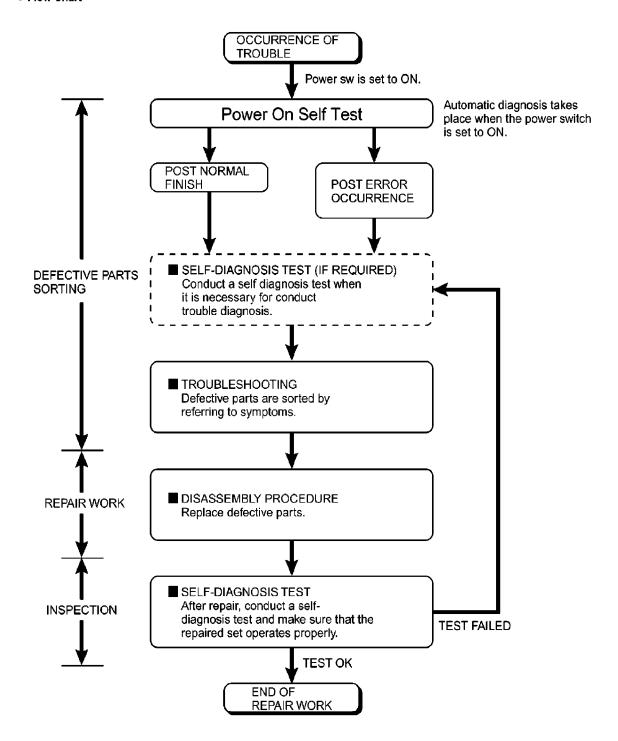


# 4 Diagnosis Procedure

# 4.1. Basic Procedures

The basic procedures for diagnosis, disassembly, and test of defective parts of a set to be repaired are summarized below. For details, refer to relevant pages in the Service Manual.

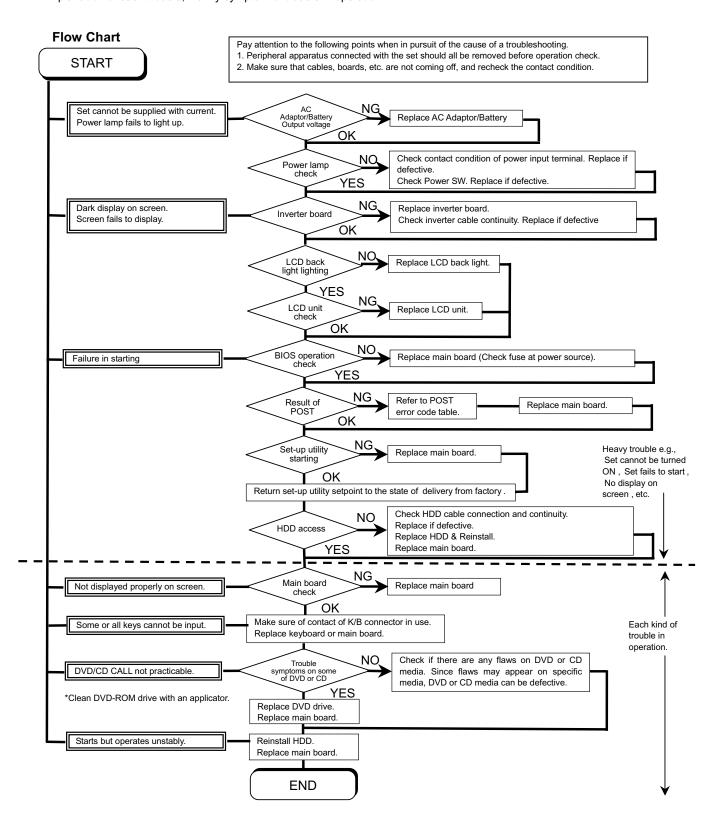
#### • Flow Chart



# 4.2. Troubleshooting

Please take note of the following two points with regard to troubleshooting:

- 1. Know-how of diagnosis upon occurrence of heavy troubles, e.g. Set cannot be turned ON, Set fails to start, No display on screen, etc.
- 2. Explanation of each trouble, mainly symptom of trouble in operation.



# 5 Power-On Self Test (Boot Check)

### **Outline of POST**

The set has a boot check function called POST (Power-On Self Test) in it.

The condition of the main body is diagnosed by checking beep sound or error code.

Start .....Test begins automatically when power switch is set to ON.

Normal finish .....After memory checking, a beep sound is issued once and the set is placed into automatic stop. Note: If no error occurs, nothing is displayed. (No display of OK, etc.)

### **Error Diagnosis by Checking Beep Signal Sound**

The beep sound is as follows:



(Length of bar shows length of sound.)

= long sound (about 0.4 sec.), = short sound (about 0.2 sec.), Length between sounds is about 0.1 sec.

#### Table of errors classified by beep sounds

Diagnosis	Beep signal sound	Error message
Main board	Main board 1(long sound)-2 BIOS ROM error	
	1-2-2-3	BIOS ROM error
	1-3-1-1	RAM error
	1-3-1-3	Keyboard controller error
	1-3-4-1	RAM error
1-3-4-3 RAM		RAM error
	1-4-1-1	RAM error
	2-1-2-3	BIOS ROM error
	2-2-3-1	Occurrence of unexpected offering

(Note) A beep sound is also issued in case of other I/O trouble.

# 6 List of Error Codes <Only when the port replicator is connected>

The following is a list of the messages that BIOS can display. Most of them occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured. Following the list are explanations of the messages and remedies for reported problems.

If your system displays one of except the messages marked below with an asterisk (\*), write down the message and contact Panasonic Technical Support. If your system fails after you make changes in the Setup menus, reset the computer, enter Setup and install Setup defaults or correct the error.

#### 0200 Failure Fixed Disk

Fixed disk in not working or not configured properly. Check to see if fixed disk is attached properly. Run Setup. Find out if the fixed-disk type is correctly identified.

#### 0210 Stuck key

Stuck key on keyboard.

### 0211 Keyboard error

Keyboard not working.

### 0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

#### 0213 Keyboard locked - Unlock key switch

Unlock the system to proceed.

### 0230 System RAM Failed at offset: nnnn

System RAM failed at offset nnnn of in the 64k block at which the error was detected.

#### 0231 Shadow RAM Failed at offset: nnnn

Shadow RAM failed at offset *nnnn* of the 64k block at which the error was detected.

#### 0232 Extended RAM Failed at offset: nnnn

Extended memory not working or not configured properly at offset *nnnn*.

# 0250 System battery is dead - Replace and run SETUP

The CMOS clock battery indicator shows the battery is dead. Replace the battery and run Setup to reconfigure the system.

#### \*0251 System CMOS checksum bad - Default configuration used

System CMOS has been corrupted or modified incorrectly, perhaps by an application program that changes data stored in CMOS. The BIOS installed Default SETUP Values. If you do not want these values, enter Setup and enter your own values. If the error persists, check the system battery or contact Panasonic Technical Support.

### 0260 System timer error

The timer test failed. Requires repair of system board.

#### 0270 Real time clock error

Real-time clock fails BIOS test. May require board repair.

### \*0280 Previous boot incomplete - Default configuration used

Previous POST did not complete successfully. POST loads default values and offers to run Setup. If the failure was caused by incorrect values and they are not corrected, the next boot will likely fail. On systems with control of **wait states**, improper Setup settings can also terminate POST and cause this error on the next boot. Run Setup and verify that the wait-state configuration is correct. This error is cleared the next time the system is booted.

### 0281 Memory Size found by POST differed from EISA CMOS

Memory size found by POST differed from EISA CMOS.

#### 02D0 System cache error - Cache disabled

Contact Panasonic Technical Support.

#### **02F0: CPU ID:**

CPU socket number for Multi-Processor error.

#### 02F4: EISA CMOS not writable

ServerBIOS2 test error: Cannot write to EISA CMOS.

#### 02F5: DMA Test Failed

ServerBIOS2 test error: Cannot write to extended DMA (Direct Memory Access) registers.

#### 02F6: Software NMI Failed

ServerBIOS2 test error: Cannot generate software NMI (Non-Maskable Interrupt).

#### 02F7: Fail - Safe Timer NMI Failed

ServerBIOS2 test error: Fail-Safe Timer takes too long.

#### device address Conflict

Address conflict for specified device.

#### Allocation Error for: device

Run ISA or EISA Configuration Utility to resolve resource conflict for the specified device.

# Failing Bits: nnnn

The hex number *nnnn* is a map of the bits at the RAM address which failed the memory test. Each 1 (one) in the map indicates a failed bit. See error 230,231 or 232 for offset address of the failure in System, Extended or Shadow memory.

#### **Invalid System Configuration Data**

Problem with NVRAM (CMOS) data.

# I/O device IRQ conflict

I/O device IRQ conflict error.

#### **Operating System not found**

Operating system cannot be located on either drive A: or drive C:. Enter Setup and see if fixed disk and drive A: are properly identified.

#### Parity Check 1 nnnn

Parity error found in the system bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????. Parity is a method for checking errors in binary data. A parity error indicates that some data has been corrupted.

#### Parity Check 2 nnnn

Parity error found in the I/O bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????.

#### Press <F1> to resume, <F2> to Setup

Displayed after any recoverable error message. Press <F1> to start the boot process or <F2> to enter a Setup and change the settings. Write down and follow the information shown on the screen.

# 7 Self Diagnosis Test

As for the self-diagnosis test(PC-Diagnostic utility) to use this model, a standard test and the enhancing test by the module of the main body building in are possible.

Notes To skip BIOS password

Use <Ctrl>+<F10> key to skip BIOS password or authentication of fingerprint. This key is only for entering DIAG mode. Not available to boot the computer. If customer set "HDD Lock", the DIAG program cannot perform HDD test.

\*This key is for service purpose only. Do not disclose this information to unrelated others.

# 1. Beginning of self-diagnosis test

#### 1-1. Setting of content of setup

- 1. The power supply of the computer is turned on.
- 2. "F2" is pushed on the screen of "Panasonic" while "press <F2 to enter Setup>" is displayed.
- 3. The setup utility starts and then takes notes of the content of the BIOS setup of present set.
- 4. "F9" is pushed, "Yes" is selected on the screen of "Is the default value loaded? ", and "Enter" is pushed.
- 5. "F10" is pushed.
- 6. "Yes" is selected on the screen of the setup confirmation, and "Enter" is pushed.
- 7. The computer starts automatically.

#### Attention

- If the device which can be set is set to "Invalidity" by "Advanced" or "Security" menu, becomes an error by "PC-Diagnostic utility".
  - (It is judged that the device which can be set to "Invalidity" by "Main" menu such as "Flat pad" is normal if the controller operates normally though sets to "Invalidity" by the setup.)
- In the model with built-in DVD of the USB connection, even if DVD is normal, becomes an error if legacy USB is set to "Invalidity"

### 1-2. When you execute an automatic test

- 1. "Ctrl" + "F7" is pushed while the "Panasonic" start screen is displayed after the computer is started.
- The test of all devices begins automatically by "PC-Diagnostic utility"'s starting.

#### Attention

- It is a test which the customer who bought PC can execute. (As for HDD, the enhancing test is also possible.)
- A flat pad does not work for a while after starting "PC-Diagnostic utility".
- The movement of a flat pad might become abnormal If after RAM begins from the CPU/System test, a flat pad will be operated in about 30 seconds. In that case, restarts pushing "Alt" + "Ctrl" + "Del" key. Or, please start "PC-Diagnostic utility" again after doing the power supply switch in the slide, and turning off the power supply.

#### 1-3. When you execute the enhancing test

- Please let me discontinue diagnosing clicking to end an automatic test.
- 2. Please click on the character of "D" "PC-Diagnostic utility" on the screen while pushing both of right "Shift" and left "Shift" keys.



- 3. All devices which can select the enhancing test make the setting of the enhancing test possible.
- 4. The district device is made"FULL" display (enhancing test).
- 5. The test begins clicking 🦙

<sup>\*</sup>Please refer to item 4 for the error result of each test and the division of the breakdown part.

### 2. Operation of PC-Diagnostic Utility

- -Only the device which can be inspected on the entire screen is displayed.
- -The item does not appear when the device of wireless LAN etc. is not physically connected.
- -The movement of the item must use an arrow key or a flat pad.



- -As for the device under the diagnosis, blue and yellow are alternately displayed at the left of the icon.
- The diagnosis result of the device greens at the left of the icon when it is normal, and becomes red when abnormal.



-When the test of all devices ends, the test result is displayed under the right of the screen.



- -Please click while diagnosing when being stop on the way by the time the test of all devices ends.
- -Please click when you restart "PC-Diagnostic utility".
- \*Each device is tested from the beginning, and it is not possible to restart on the way.

#### 2-1. Selection of tested device

- -To test only a specific device, "Test" and "Do not test" of each device can be selected.
- -The device which can select the enhancing test changes in order of "The standard is tested" and "Do not test" whenever the device icon is clicked.



Start the standard test



Do not test

Please begin testing clicking



if the selection of the tested device ends.

# 2-2. "PC-Diagnostic utility" End method

When  $\boxtimes$  of "Close" on the right of the screen is clicked, the computer reactivates automatically. Or, the power supply switch is done in the slide and the power supply is turned off.

#### 2-3. The content of the setup is returned to the setting of the user

- 1. Turned on the computer.
- 2. "F2" is pushed on the screen while "Press<F2>to enter Setup" is displayed of "Panasonic".
- 3. Push "F10", and on the screen of "Is the change in the setting preserved and do end?" and then "Yes" is selected, and "Enter" is pushed.
- 4. The computer reactivates automatically.
- 5. The end option is chosen by the start menu, and the power supply of the computer is turned off.

#### Standard at test time

All devices other than RAM and HDD ----- about 1 minute RAM standard test ------ 1 - 2 minutes HDD standard test ------ 2 - 3 minutes HDD enhancing test (60GB) ----- about 40 minutes

Ex.The standard when the standard <all device> is tested becomes 1+2+3=6 minutes.

- There is greatly a difference from RAM test when the memory is increased according to the performance of the memory occasionally.
- Moreover, when the main body of PC under the test is a high temperature, it occasionally takes time.
- There is greatly a difference from HDD according to the performance of the drive occasionally.

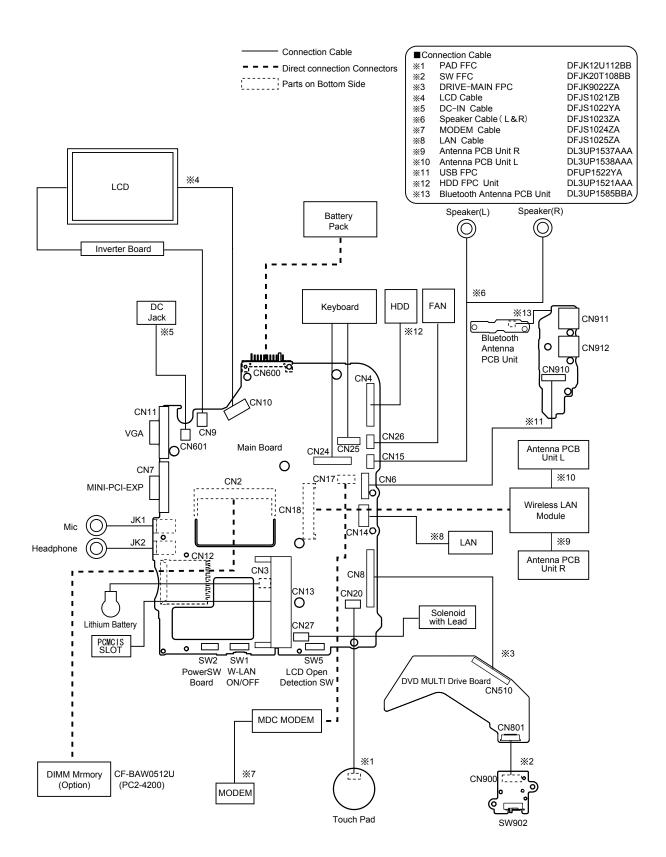
# 7.1. Test Item and Division of trouble

Test item	Stanard	Enhancing	Content of standard test	Content of enhancing test	Place with possibility of breakdown
CPU / SYSTEM	0	_	CPU is shifted to protected mode, and "Violation of the paging", "Operation of the violation of a privileged instruc- tion", and DMA, INT, TIMER, and the RTC operation are confirmed.		CPU / Main board
RAM	0	_	All memory space is tested in a special memory access pattern based on "R.S.T. technology".		Memory / Main- board
HDD	0	0	The record area frequently accessed with Microsoft Windows XP to test in about two minutes regardless of points of HDD is emphatically tested.	All record area is tested.	HDD / Mainboard / Cable / Connector
MODEM	0		It is confirmed not to find abnormality in the AC97 modem controller.	_	MODEM/ Main- board
Wireless LAN	0	_	It is confirmed not to find abnormality in the Wireless LAN modem controller.	_	Wireless LAN board / Connector / Mainboard
Sound *5	0				
USB	0	*1	It is confirmed not to find abnormality in the USB controller.	It is confirmed not to find abnormality in the wiring between the USB controller and the connector by confirming the connection of the USB equipment connected with the USB connector.	Mainboard / Connector
LAN	0	*2 O	It is confirmed not to find abnormality in the LAN controller.  It is confirmed not to find abnormality in the wiring between the controller and the connector by connecting to HUB with LAN cable.		Mainboard / Connector
PC Card	0	_	It is confirmed not to find abnormality in the CardBus controller.	_	Mainboard
SD	0	_	It is confirmed not to find abnormality in the SD controller.		Mainboard
Keyboard	0	*3	It is confirmed not to find abnormality in keyboard controller's keyboard interface.	The key is actually input, and the operation is displayed on the screen.	Mainboard / Keyboard
Touch Pad	0	*4 O	Whether keyboard controller's mouse nterface operates normally is controller.  The operation is actually displayed on the screen by operating the touch pad.		Mainboard / Touch Pad
DVD-ROM	0	<u> </u>	The drive is normally reset, and it is accessible is confirmed.	It is confirmed to be able to read media normally.	Mainboard / Touch Pad

Test Item	Standard	Enhanced	Content of Standard Test	Content of Extend Test	The place with possibility of breakdown
Touch Screen		0	It is confirmed not to find abnormality in the USB connection of Touch Screen. This test cannot find abnormality of Touch Screen.	Perform Touch Screen functionality practically. Operator has to judge PASS/FAIL with test result.	Main board/ Touch Screen
Bluetooth	0		It is confirmed not to find abnormality in the connection of Main board and Bluetooth module.	_	Bluetooth cable
Floppy	0	_	It is confirmed not to find abnormality in the legacy FD drive. This test cannot find abnormality of mechanical breakdown. (e.g Head, Motor)	_	FD Drive/ Main board (Super I/O)/ FDD cable FDD connector
Video	0	_	It is confirmed not to find abnormality in access to VRAM with VESA. The PC which uses main of Main board and GPS main memory failure.	_	Main board (Chipset, Graphic Controller)/ Memory
GPS	0	_	It is confirmed not to find abnormality in the connection memory as VRAM may fail with	_	GPS cable
IEEE1394	0		It is confirmed not to find abnormality in the IEEE1394 controller.	_	Main board (IEEE 1394 Controller)
Express Card	_	0	_	It is confirmed not to find abnormality in the wiring between Chipset and Express Card.	Main board (Chipset)/ Express Card Connector
Smart Card	0	_	It is confirmed not to find abnormality in the Smart Card controller.	_	Main board (Smart Card Controller)
Serial Port	0	O *7	It is confirmed not to find abnormality of Super I/O UART function. This test cannot find lack of wiring between Super I/O and Serial Connector.	It is confirmed not to find abnormality in the wiring between Super I/O and Serial Connector. This test cannot find failure of cable characteristic and device problems.	Main board (Super I/O)/ Serial Connector
Parallel Port	0	*8	It is confirmed not to find abnormality of Super I/O parallel function. This test cannot find lack of wiring between Super I/O and Parallel Connector.	It is confirmed not to find abnormality in the wiring between Super I/O and Parallel Connector. This test cannot find failure of cable characteristic and device problems.	Main board (Super I/O)/ Parallel Connector

- \*1 Please connect the USB device with the port (USB connector) which wants to test before the tests.
- \*2 Please connect LAN port with LAN HUB with LAN cable before the tests.
- \*3 The operator actually inputs the key, and the operator judges PASS/FAIL of the test.
- \*4 The operator actually operates the mouse, and the operator judges PASS/FAIL of the test.
- \*5 It is not abnormal though the sound is emitted from the speaker while testing.
  - X When the test result is PASS, trouble is thought by not hearing of the sound under the test from the speaker and the headphone by the wiring of the audio output system.
- \*6 Please set DVD/CD media in the drive before the tests.
- \*7 Please set a Special Loop Back Connector Tool at serial connector for Enhanced Test. (This Connector Tool is same as the one used before.)
- \*8 Please set a Special Loop Back Connector Tool at parallel connector for Enhanced Test. (This Connector Tools is same as the one used before.)

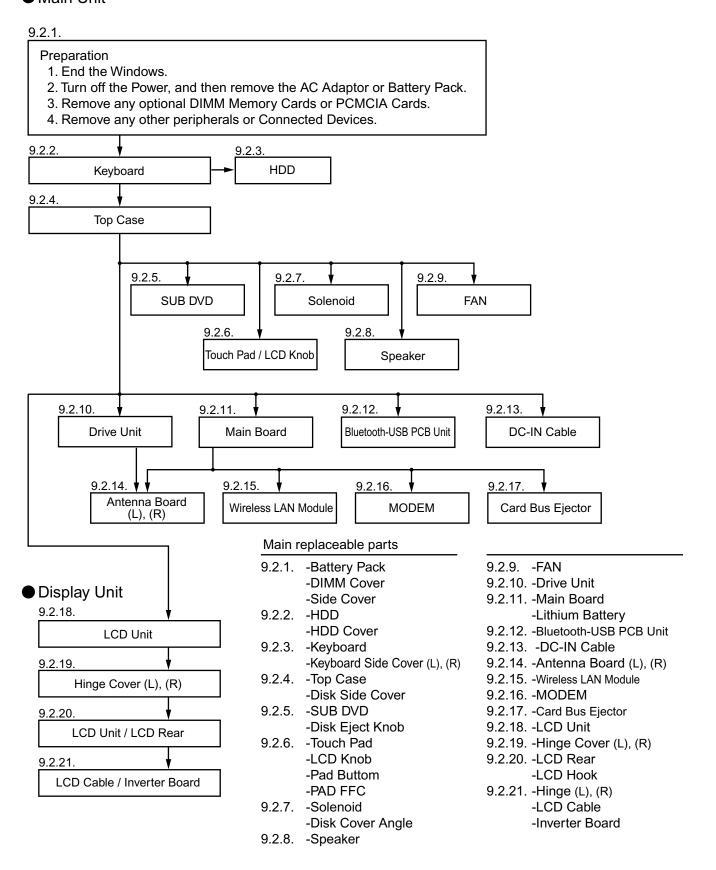
# 8 Wiring Connection Diagram



# 9 Disassembly instructions

# 9.1. Disassembly Flow Chart

### Main Unit



# 9.2. Disassembly Instructions

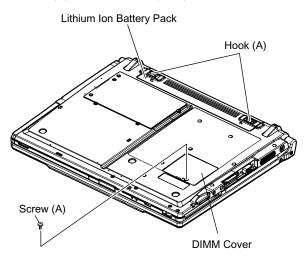
#### 9.2.1. Preparation

#### Attention:

Before disassembly, be sure to perform the following steps.

- 1. End the Windows.
- 2. Turn off the power and then remove the AC adaptor.
- 3. Slide the hooks (A) and then remove the battery Pack.
- 4. Remove the screw (A) and then remove the DIMM cover.

(Remove if the DIMM memory is equipped with) Screw (A): XSB2+4FNL (N14)



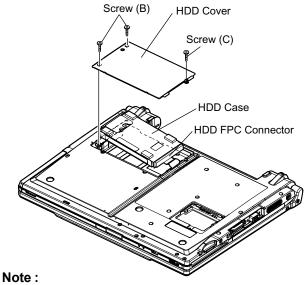
# 9.2.2. Removing the HDD

Preparation: perform the section 9.2.1. first.

1. Remove the 2 screws (B) and 1 screw (C).

Screw (B): DXQT2+D4FNL (N7) Screw (C): DXQT2+E12FNL (N9)

- 2. Lift up the HDD unit and remove FFC connector and then remove the HDD unit.
- 3. HDD is taken out of the HDD case.



Please do not bend pins of the HDD connector, at the time of removing HDD and FFC connector.

# 9.2.3. Removing the Keyboard

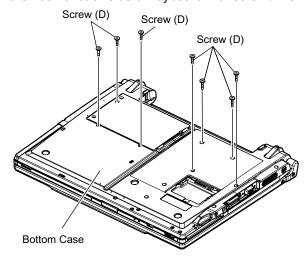
Preparation: perform the section 9.2.1. first.

Remove the 7 screws (D).
 Screw (D): DXQT2+E12FNL (N9)

2. Operate the LCD knob and open the LCD Unit to an angle of 90 degrees or more.

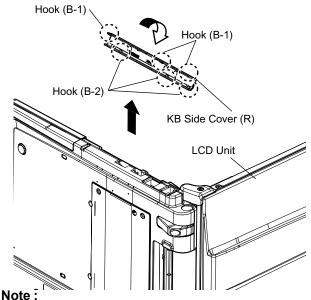
The minus clock driver removes hook (B-1) in the intuition combination part so as not to damage from the W-LAN connector side space to the exterior, and then rotates to the keyboard side, and KB side cover is detached.

3. Remove the keyboard hook plates, and then remove the hook of back side of keyboard with screwdriver.



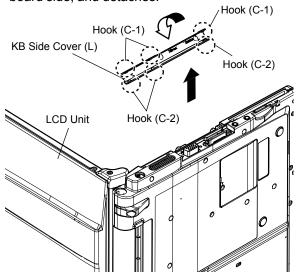
4. Operate the LCD knob and open the LCD unit to an angle of 90 degrees or more.

The minus clock driver removes hook (B-1) in the hook position so as not to damage from the wireless LAN connector side space to the exterior, and then rotates to the keyboard side, and KB side cover is removed.



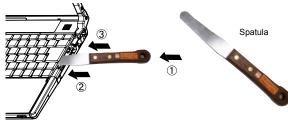
Be careful not to wrap the protection cloth etc. around minus clock driver's point, and be careful not to damage the exterior.

5. KB side cover (L) is adjusted to the upper part as well as KB side cover (R), the minus clock driver removes hook (C-1) in the hook position from the space with the bottom case, rotates to the keyboard side, and detaches.

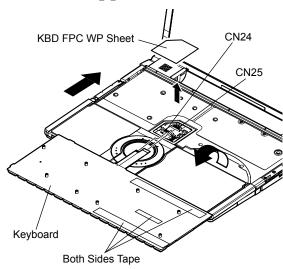


6. The both sides tape pasted to the keyboard bottom with the spatula is inserted in order of the arrow and then peel off. It is start-up from the LCD side and turns inside out on the top case.

The KBD FPC WP sheet is peeld off, FFC (keyboard) is removed from connector (CN25) and (CN24), and then remove the keyboard.



※ Do not damage the spatula ahead and move a top case in the direction of the arrow in (1)-(3) order.



#### Note:

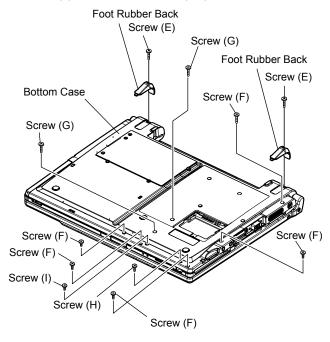
KBD-FPC sheet cannot be recycled. Please use new parts.

# 9.2.4. Removing the Top Case

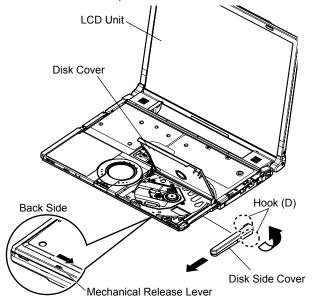
Preparation: perform the section 9.2.1., 9.2.3. first

- 1. Remove the 2 screws (E) and 2 foot rubber backs. Screw (E): XTB26+10GFN (N12)
- 2. Remove the 5 screws (F). Screw (F): DXHM0057ZA (N5)
- 3. Remove the 2 screws (G). Screw (G): DXHM0049ZA (N3)
- 4. Remove the 1 screw (H) and 1 screw (I).

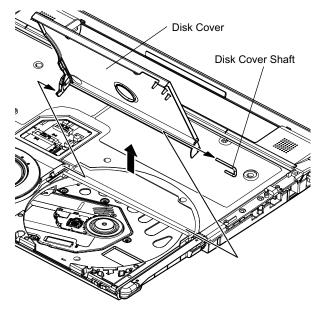
Screw (H): DXQT2+D4FNL (N7) Screw (I): DXQT2+E10FNL (N8)



- 5. Operate the LCD knob and open the LCD Unit to an angle of 90 degrees or more.
- The hook 2 places of the disk side cover are removed, and detaches forward while rotating in the direction of the upper surface.
- 7. The disk cover lock is mechanically released, and the disk cover is opened.



8. The disk cover shaft is removed and pulling out disk cover is removed from the disk cover.



9. Remove the 8 screws (J), 3 screws (K), 3 screws (L), 4 screws (M) and 1 screw (N).

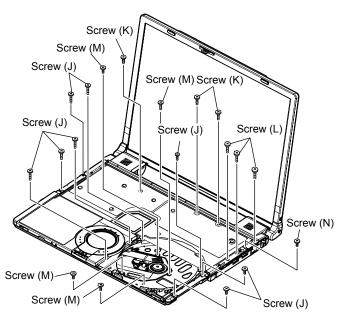
Screw (J): DXQT2+E6FNL (N10)

Screw (K): DRQT2+E8FKL (N2)

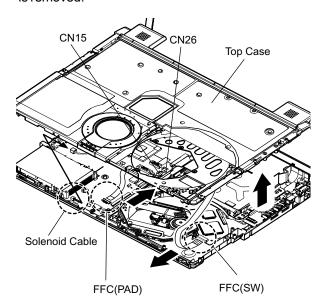
Screw (L): DXQT2+E10FNL (N8)

Screw (M): DXQT2+F3FNL (N16)

Screw (N): DXHM0056ZA (N4)



10. CN26 (FAN) and CN15 (SP) are removed. A top case is lifted and FFC (PAD), FFC (DRIVE) and CN27 (solenoid) are removed and then the top case is removed.



### 9.2.5. Removing the SUB DVD

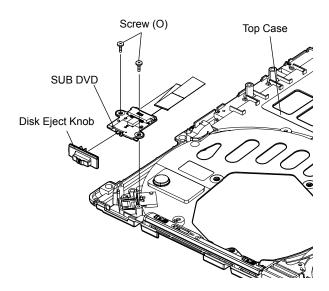
Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

- 1. Peel off the tape.
- 2. Remove the 2 screw (O) and then remove the SUB DVD.

Screw (O): DXHM0056ZA (N4)

#### Note:

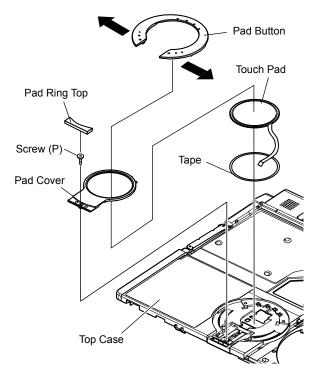
Note it that the disc eject knob comes off at the same time.



# 9.2.6. Removing the Touch Pad / LCD Knob

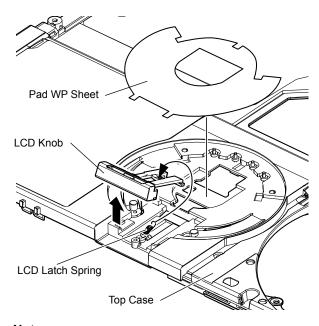
# Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

 The pad top ring fixed to the pad cover by the both sides tape is removed, and remove the screw (P).
 Screw (P): DXHM0057ZA (N5)



2. Peel off the pad sheet.

The LCD knob is lifted from a top case, and removing LCD knob is removed from the knob side in the LCD latch spring.



# Note:

The pad sheet cannot be recycled. Please use new parts.

# 9.2.7. Removing the Solenoid / Disc Cover Lock

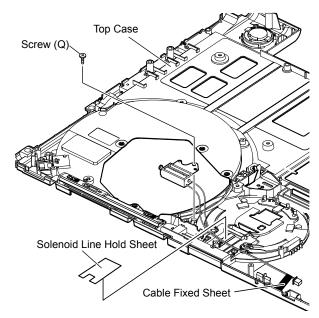
# Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

1. Remove the solenoid line hold sheet and cable fixed sheet.

Solenoid line hold sheet: DFHR3D20ZA (K122)

2. Remove the 1 screw (Q) and the solenoid from the top case.

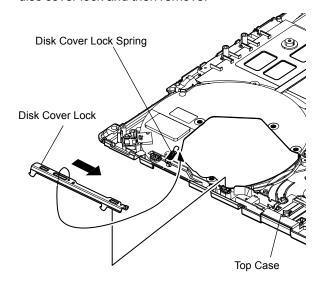
Screw (Q): DXHM0056ZA (N4)



#### Note:

The each cable fixed tapes cannot be recycled. Please use new parts.

Remove the disc cover lock spring, and slide the disc cover lock and then remove.



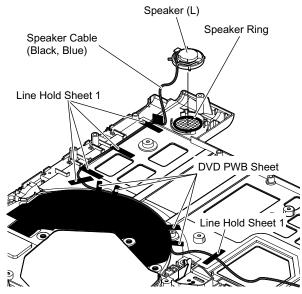
#### Note:

When expanding or transforming, the disk cover knob spring cannot be recycled.

# 9.2.8. Removing the Speaker (L), (R)

Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

 Peel off the 5 line hold sheet 1, the 4 brims of the DVD PWB sheet, and remove the speaker (L).
 Line hold sheet 1 : DFHR3D21YA (K123)
 DVD PWB sheet : DFMX1229ZA (K161)

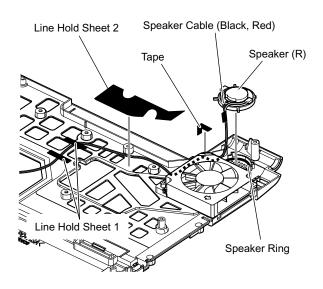


#### Note:

These sheet and speaker ring cannot be recycled. Please use new parts.

2. Peel off the 2 line hold sheet 1, line hold sheet 2 the 1 tape, and remove the Speaker (L).

Line hold sheet 1 : DFHR3D21YA (K123) Line hold sheet 2 : DFHR3D22ZA (K124)



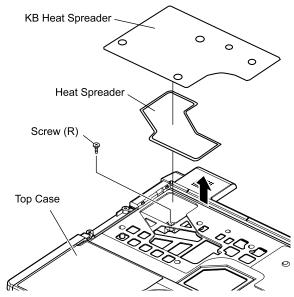
#### Note:

These sheets and speaker ring cannot be recycled. Please use new parts.

#### 9.2.9. Removing the FAN

Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

- Remove the KB heat spreader and the heat spreader
- 2. Remove the 1 screw (R) Screw (R): DXHM0057ZA (N5)

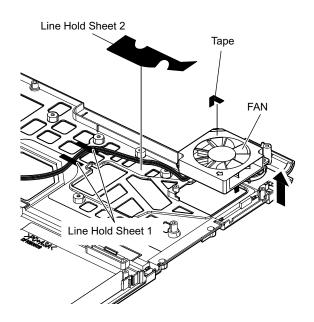


#### Note:

KB heat spreader and the heat spreader cannot be recycled. Please use new parts.

3. Remove the tape and line hold sheet 2 and then remove the FAN.

Line hold sheet 1 : DFHR3D21YA (K123) Line hold sheet 2 : DFHR3D22ZA (K124)



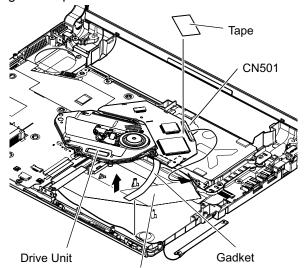
#### Note:

These sheets and tape cannot be recycled. Please use new parts.

# 9.2.10. Removing the Drive Unit

Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

- 1. Peel off the tape from the connector.
- 2. DVD FFC is removed from connector (CN501), and the drive unit is lifted from the bottom case, and the gasket is peeled off and then remove the drive unit.



Note: DRIVE-MAIN FFC

-When you exchange DRIVE-MAIN FFC, mark the bottom case, and match new FFC to marking of the bottom case, bend, and build the bend externals of FFC before peeling off FFC from the bottom case.

-Tape and gusket cannot be recycled. Please use new parts.

# 9.2.11. Removing the Main Board

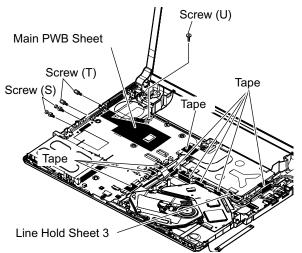
Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

1. Remove the 2 screws (S), 2 screws (T) and 1 screw (U).

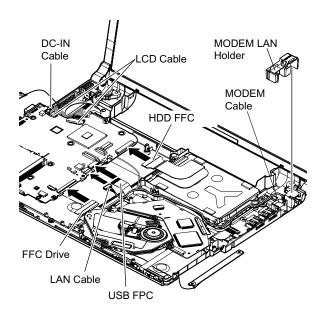
Screw (S): K1YE5000022 (N15) Screw (T): DFHE5035ZB (N1) Screw (U): DXQT2+E6FNL (N10)

2. Peel off the 6 tapes, main PWB sheet and line hold sheet 3.

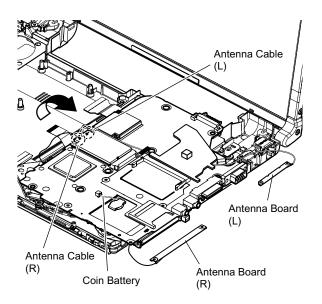
Main PWB sheet: DFMX1228ZA (K64) Line hold sheet 3: DFHR3D59YA (K47)



 Disconnect the LCD connector (CN9) (CN10), DC-IN connector (CN601) and FFC (CN4) (CN6) (CN18) (CN8).



- 4. Turn inside out the main board. Remove the antenna cable (L), (R) from the wireless LAN module, and then remove the main board.
- 5. Remove the connector from CN3 and then remove the coin battery.



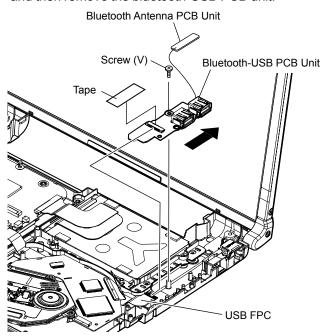
# 9.2.12. Removing the Bluetooth-USB PCB Unit (with BT) / Bluetooth Antenna PCB Unit

Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

1. Remove the screw (V).

Screw (V): DXQT2+D25FNL (N6)

2. Remove the USB FPC from the tape and CN910, and then remove the bluetooth-USB PCB unit.

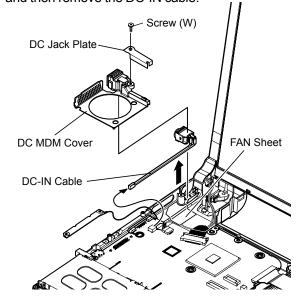


# 9.2.13 . Removing the DC-IN Cable

Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

Remove the 1 screw (W).
 Screw (W): DXQT2+E6FNL (N10)

2. DC-IN jack plate, DC MDM cover, DC-IN cable connector (CN601), and FAN sheet are peeled off, and then remove the DC-IN cable.



#### Note:

FAN sheet cannot be recycled. Please use new parts.

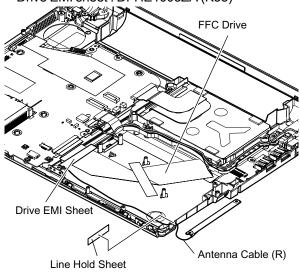
# 9.2.14. Removing the Antenna Board Unit (L), (R)

Preparation: perform the section 9.2.1., 9.2.3., 9.2.4., 9.2.10. and 9.2.11. first.

 Peei off the line hold sheet and drive EMI sheet and then remove the antenna board (R).

Line hold sheet: DFHR3D80ZA (K52)

Drive EMI sheet: DFHE1003ZA (K38)



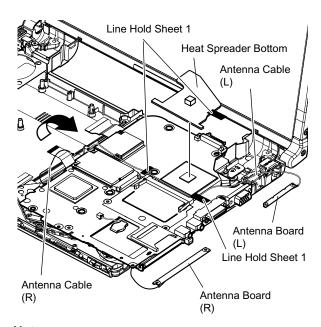
#### Note:

These sheet cannot be recycled. Please use new parts.

 Line hold sheet 1 and heat spreader bottom are peeled off from main Board's wireless LAN side, and takes the antenna cable (L) out from the ditch and then remove the antenna board (L).

Line hold sheet 1 : DFHR3D21ZB (K43)

Heat spreader bottom: DFMY3222ZA (K69)



#### Note:

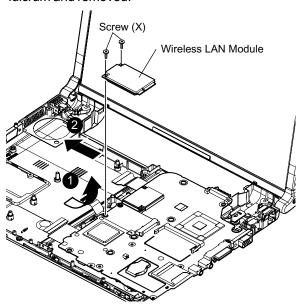
Line hold sheet 1 and heat spreader bottom cannot be recycled. Please use new parts.

# 9.2.15. Removing the Wireless LAN Module 9.2.17. Removing the Card Bus Ejector

Preparation: perform the section 9.2.1., 9.2.3., 9.2.4. and 9.2.11. first.

1. Remove the 2 screws (X). Screw (X): DXQT2+D25FNL (N6)

2. Wireless LAN module is floated in the connector fulcrum and removed.

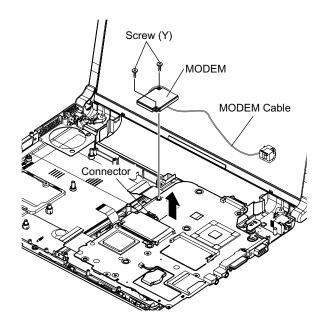


# 9.2.16. Removing the MODEM

Preparation: perform the section 9.2.1., 9.2.3., 9.2.4. and 9.2.11. first.

1. Remove the 2 screws (Y). Screw (Y): DXQT2+D25FNL (N6)

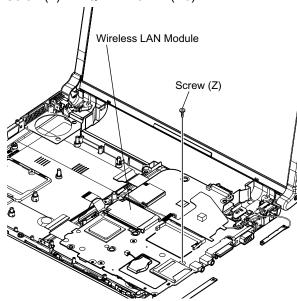
2. MODEM will be removed from connector (CN17) to the vertical direction.



Preparation: perform the section 9.2.1., 9.2.3., 9.2.4. and 9.2.11. first.

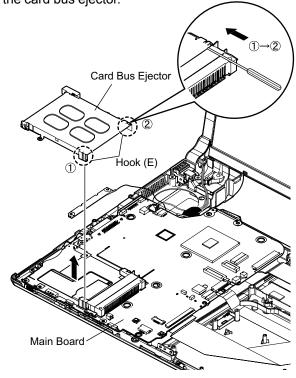
1. Remove the 1 screw (Z) from connection side of wireless LAN.

Screw (Z): DXQT2+D25FNL (N6)



2. Return it on the revers to the card bus ejector side.

3. The minus small driver is inserted in connector (CN13) and the card bus ejector intuition combination parts, 2 places of hooks (E). And then remove the card bus ejector.



#### Note:

Be careful not to transform the card bus ejector when you remove the hook.

# 9.2.18. Removing the LCD Unit

Preparation: perform the section 9.2.1., 9.2.3. and 9.2.4. first.

1. Remove the 1 screw (a).

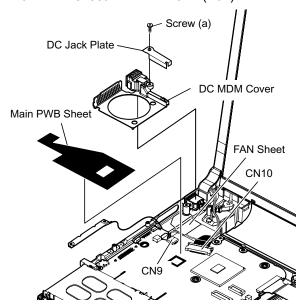
Screw (a): DXQT2+E6FNL (N10)

2. Remove the DC-IN jack plate, DC MDM cover and FAN sheet.

FAN sheet: DFMY0428ZA (K65)

3. Peel off the main PWB sheet and remove the connector (CN9), (CN10) of the main board.

Main PWB sheet: DFMX1228ZA (K64)



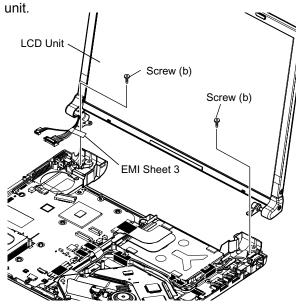
#### Note:

These sheet cannot be recycled. Please use new parts.

4. Remove the 2 screws (b).

Screw (b): DXYN26+J6FNM (N11)

5. Peel off the EMI sheet 3 and then remove the LCD

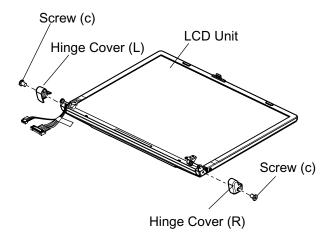


# 9.2.19. Removing the Hinge Cover (L), (R)

Preparation : perform the section 9.2.1., 9.2.3., 9.2.4. and 9.2.18. first.

1. Remove the 2 screws (c) and then remove the hinge Cover (L), (R).

Screw (c): DRHM0076ZA (N17)



#### Note:

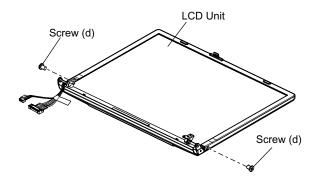
Screw (c) cannot be recycled. Please use new parts.

# 9.2.20. Removing the LCD Unit and the LCD Rear

Preparation: perform the section 9.2.1., 9.2.3., 9.2.4., 9.2.18. and 9.2.19. first.

1. Remove the 2 screws (d).

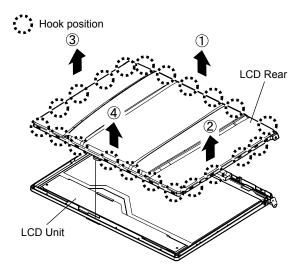
Screw (d): DRHM0076ZA (N17)



#### Note:

Screw (d) cannot be recycled. Please use new parts.

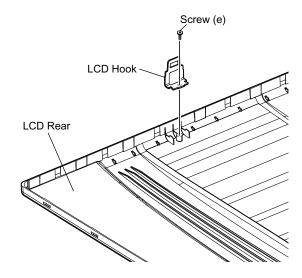
2. The intuition combination part of LCD rear case (21 places) is separated with LCD front case.



#### Note:

- -When each hook is removed, it becomes easy to detach if the driver who wraps protection cloth etc. is inserted with LCD Front Case between LCD rear covers, and the slide is repeated.
- -Do noting that externals are not damaged.
- 3. Remove the 1 screw (e) from LCD rear and then remove the LCD hook.

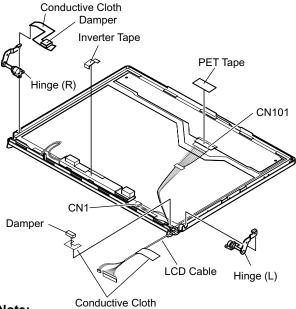
Screw (e): DXQT2+D25FNL (N6)



# 9.2.21. Removing the LCD Cable / Inverter Board

Preparation: perform the section 9.2.1., 9.2.3., 9.2.4., 9.2.18. and 9.2.20. first.

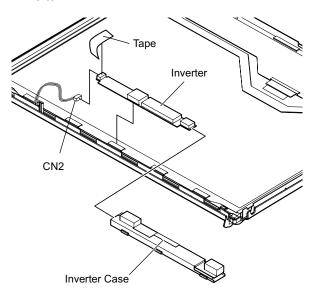
- Peel of the damper, conductive cloth, inverter tape and the tape.
  - Inverter tape: DFHR3E07ZA (K18)
- 2. Remove the hinge (L), (R).
- LCD Ccable is removed from LCD unit board (CN101), and connector (CN1) is removed from inverter board.



Note:

Conductive cloth and tapes cannot be recycled. Please use new parts.

- 4. Inverter case is peeled off and Inverter fixed with a both sided tape is taken out.
- 5. Peel off the tape from inverter.
- 6. Remove the connector (CN2) and then remove the inverter.



#### Note:

Tape and inverter case cannot be recycled. Please use new parts.

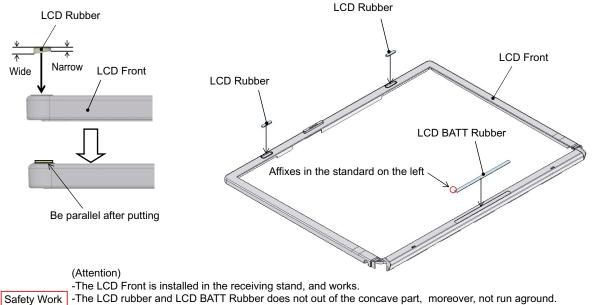
# 9.3. Reassenbly instructions

# 9.3.1. Attention when CF-Y5L series is repaired

- Please execute writing BIOS ID when you exchange the main board.
- Parts (sheet and rubber) etc.related various the conductive cloth and heat spreader cannot be recycled. Use new parts.

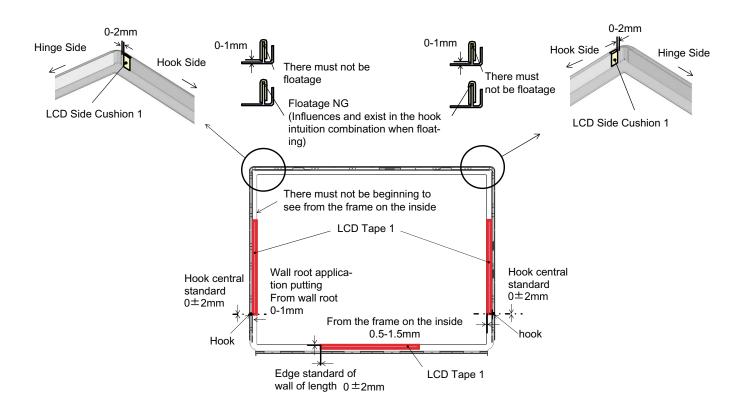
# 9.3.2. Assembly knowhow of the LCD

# 9.3.2.1. Assembly of the LCD Front



-It is noted that the finger does not touch the paste side when the LCD Rubber and LCD BATT Rubber are affixed.

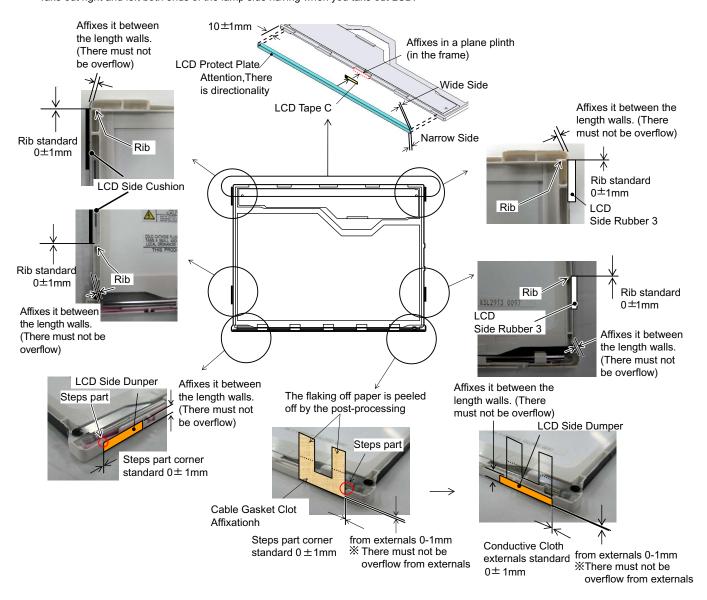
#### 9.3.2.2. Putting LCD Side Cushion / LCD Tape 1



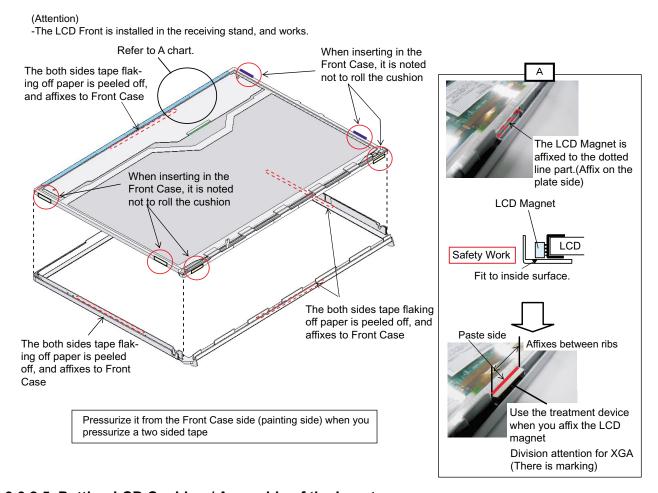
### 9.3.2.3. Putting LCD Side Rubber / LCD Side Damper

(LCD handling attention)

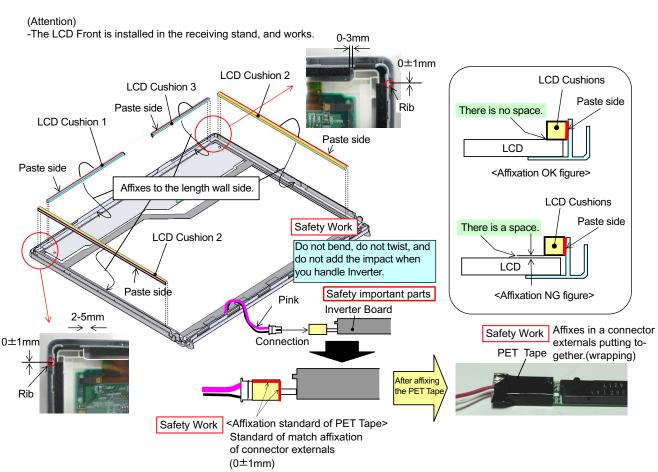
- -Do not take out the vicinity of the center of the lamp side having when you take out LCD of the packing box. (Because there is a possibility that the transformation of the lamp reflector etc. occur)
- -Take out right and left both ends of the lamp side having when you take out LCD.

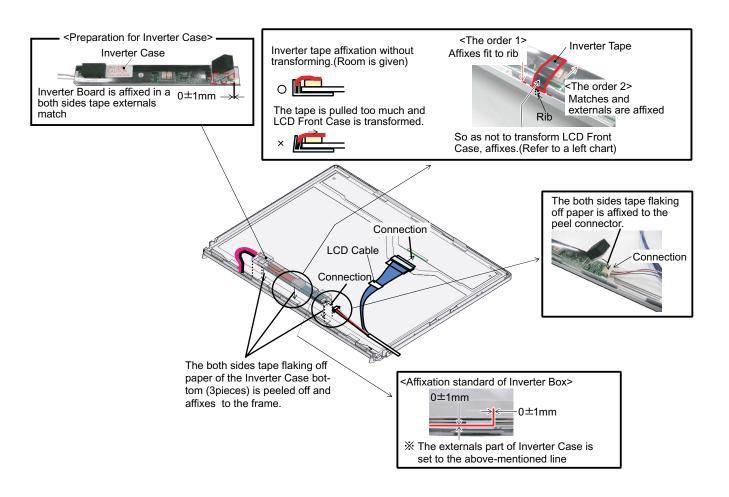


#### 9.3.2.4. Putting LCD Magnet

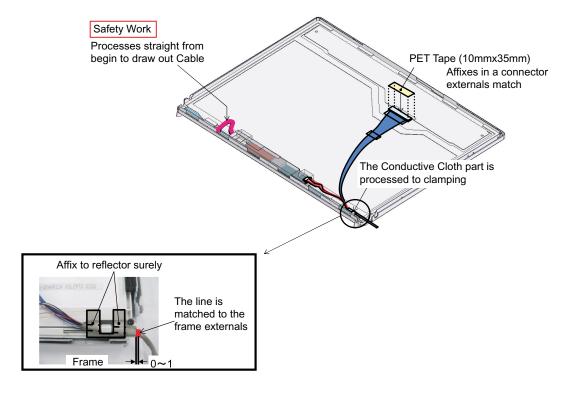


# 9.3.2.5. Putting LCD Cushion / Assembly of the Inverter

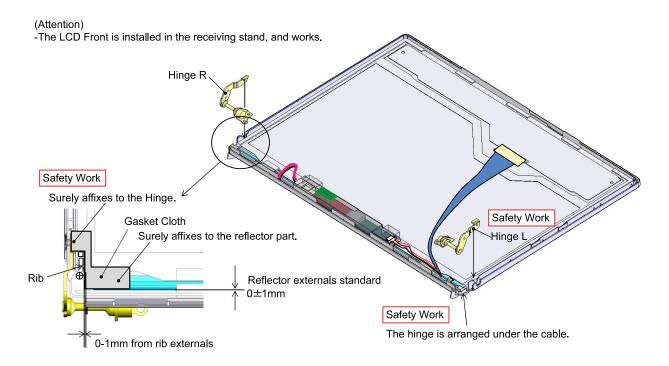




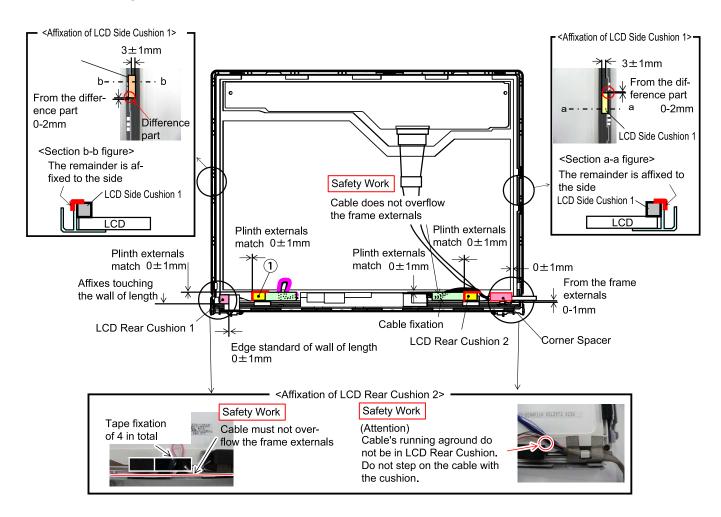
### 9.3.2.6. Putting Tape for LCD Cable



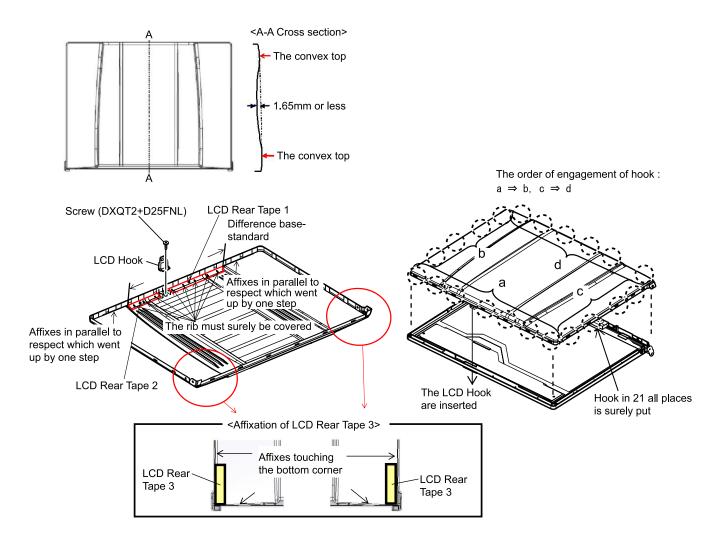
### 9.3.2.7. Assembly of the Hinge (L), (R)



# 9.3.2.8. Putting LCD Rear Cushion / LCD Side Cushion



#### 9.3.2.9. Assembly of the LCD Rear / LCD Front

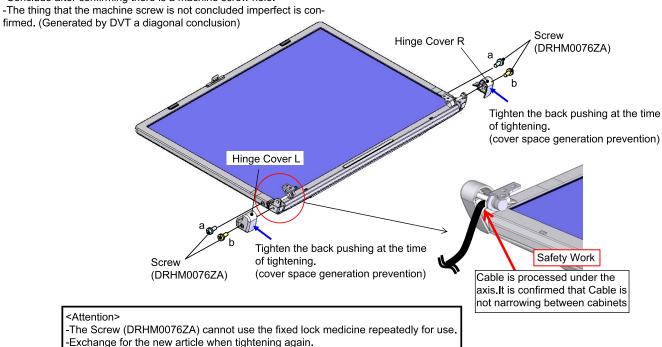


### 9.3.2.10. Assembly of the Hinge Cover (L), (R)



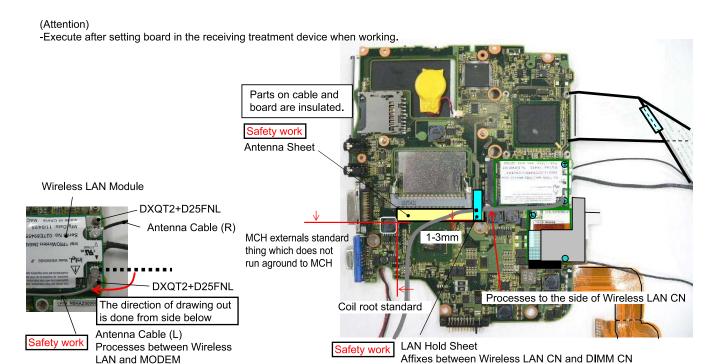
The tightening order :  $a \Rightarrow b$ 

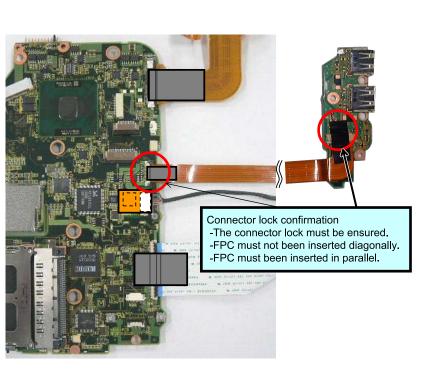
-Conclude after confirming there is a machine screw hole.

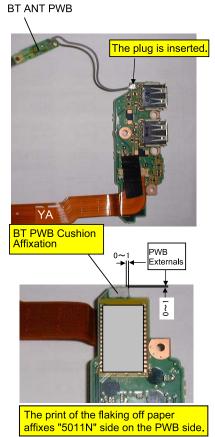


### 9.3.3. Assembly knowhow of the Main Board

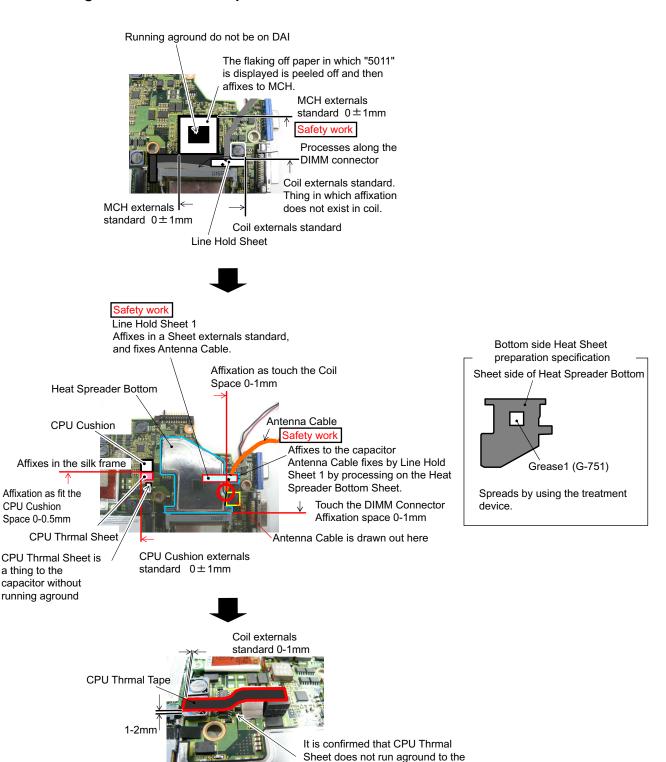
### 9.3.3.1. Putting Line Hold Sheet / Antenna Sheet / BT PWB Cushion





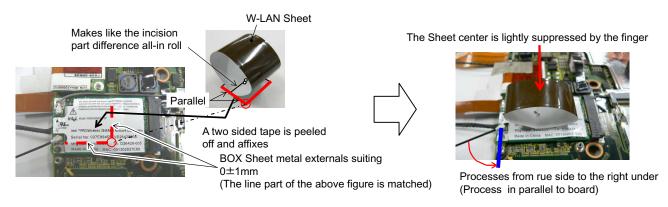


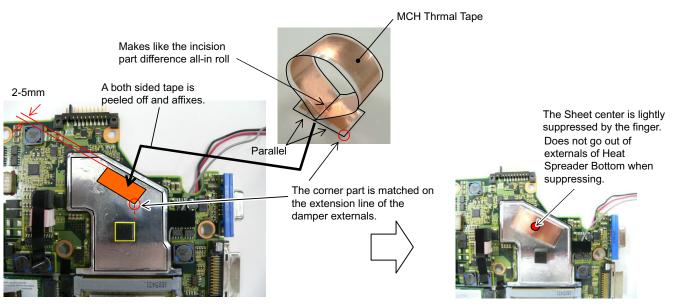
# 9.3.3.2. Putting MCH Sheet / Heat Spreader Bottom



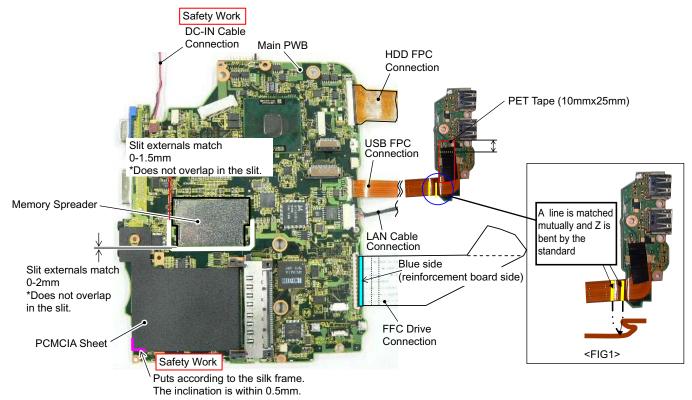
capacitor

#### 9.3.3.3. Assembly of the WLAN Sheet / MCH Thermal Tape



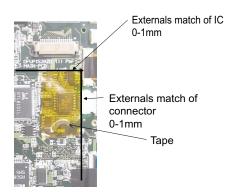


#### 9.3.3.4. Assembly of the Main Board

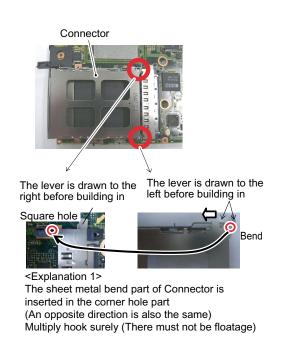


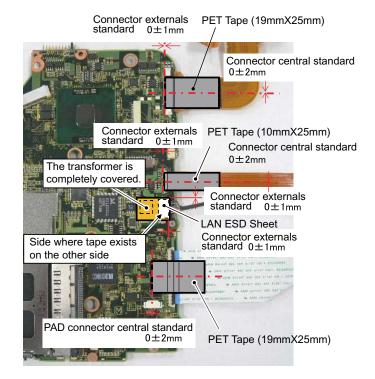
#### (Attention)

- -The board is set in the receiving treatment device and works.
- -The connector lock work after FPC is inserted uses the treatment device.

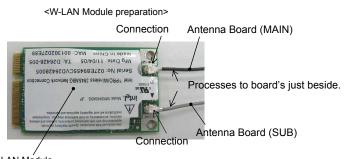


### 9.3.3.5. Assembly of the Card Bus Ejector

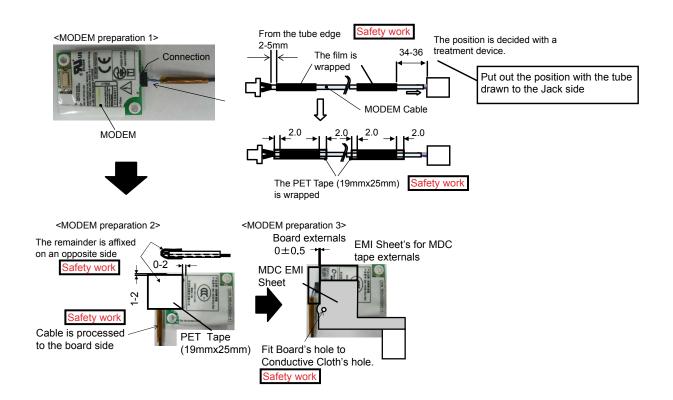




### 9.3.3.6. Assembly of the Wireless LAN Module / MODEM



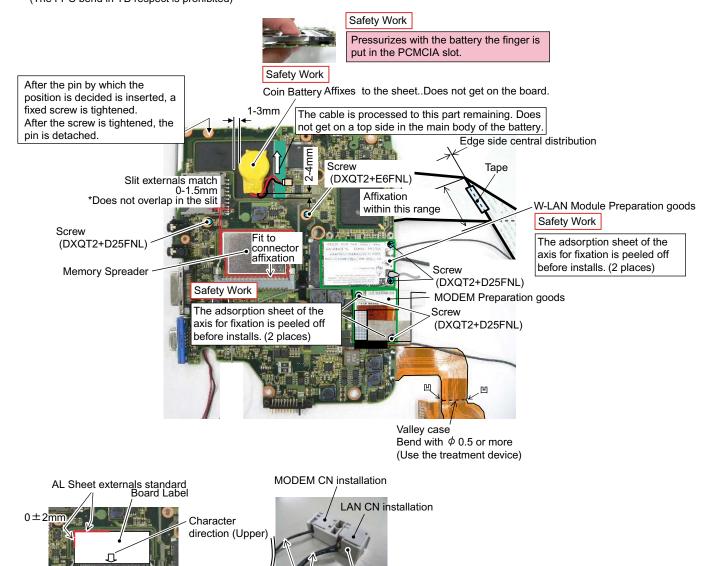
- W-LAN Módule
  -Work in midair prohibition when module is connected with antenna board.
- -Connects applying the board to the receiving stand.
- (For the distortion prevention of the board)



#### 9.3.3.7. Insert the Main Board

(Attention)

- -The board is set in the receiving treatment device and works.
- -When carrying to the following process, a special palette is used. (The FPC bend in YB respect is prohibited)



MODEM LAN Holder

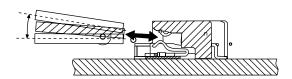
#### 9.3.3.8. Note of Wireless LAN module is inserted

<Notes when Wireless LAN Module is inserted>

Please do Board's insertion and extraction correctly according to the direction and the procedure shown in the figure below

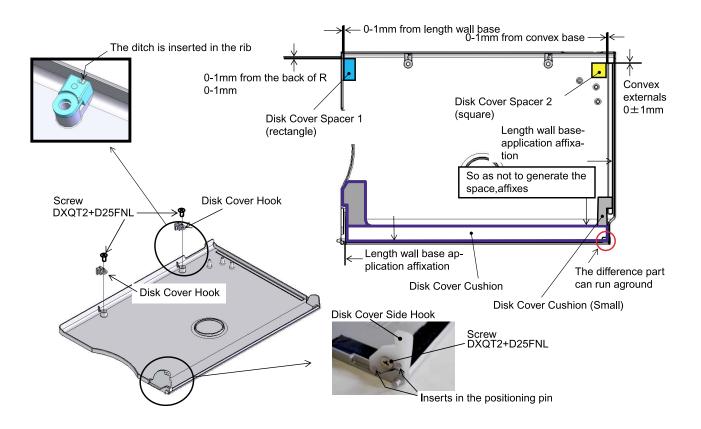
Installs so that the cable should not cross.

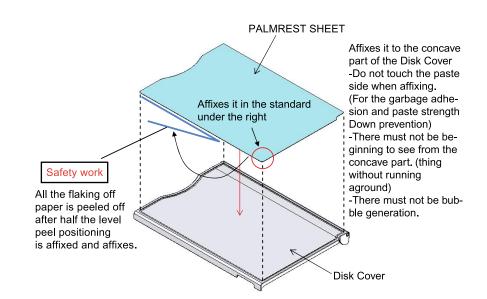
- ① Please go from parallel respect to mounting Board in Board's insertion and extraction within the range of 5°-10°
- ② Please insert in the interior completely when you insert Board.



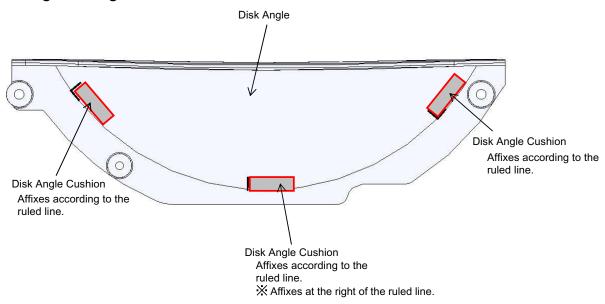
# 9.3.4. Assembly knowhow of the Top Case

### 9.3.4.1. Assembly of the Disk Cover

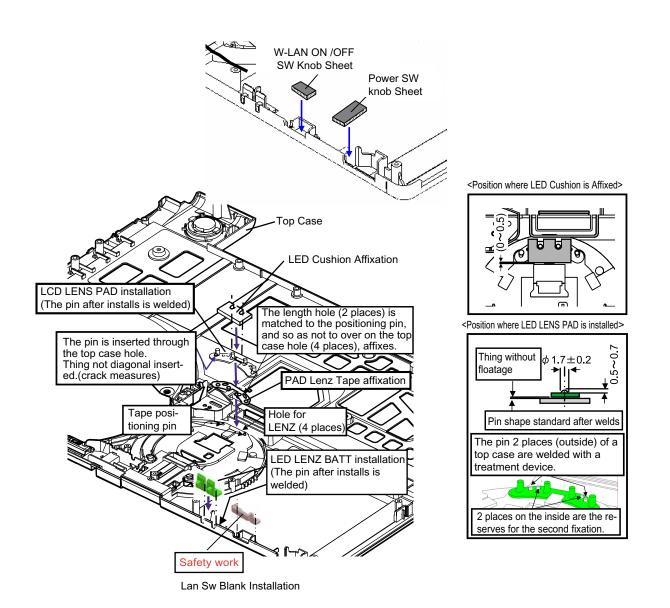


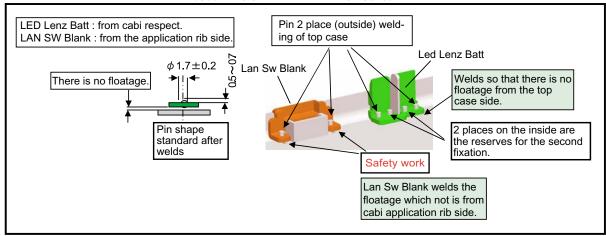


### 9.3.4.2. Putting Disk Angle Cushion

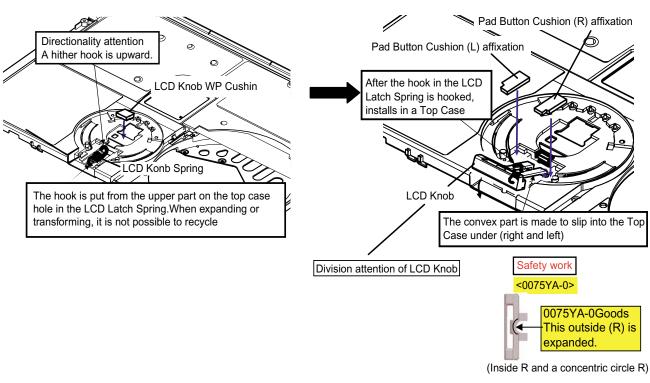


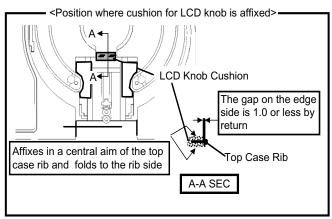
### 9.4.3.3. Assembly of the Top Case

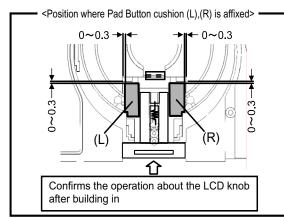




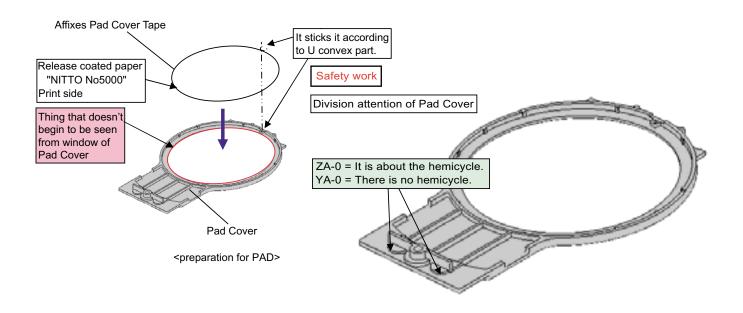
#### 9.4.3.4. Assembly of the LCD Knob / Putting Cushion

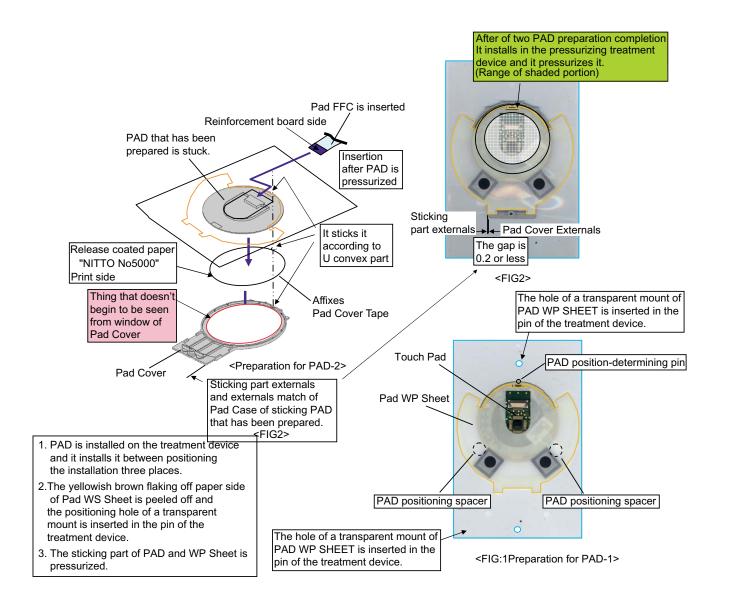


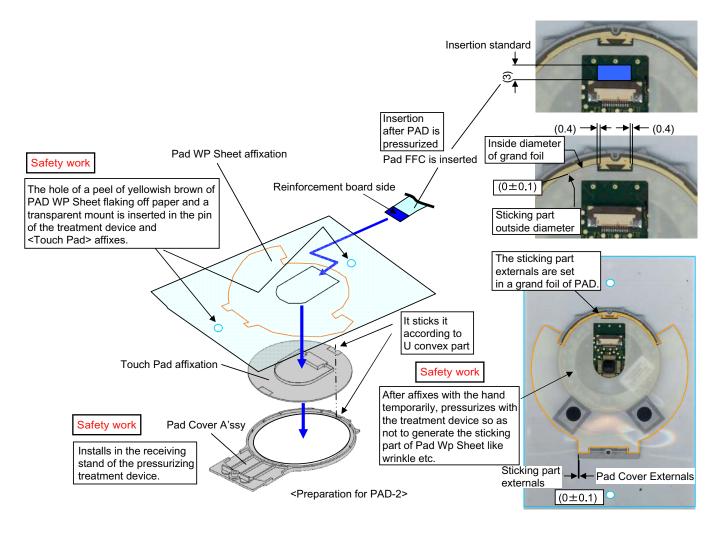


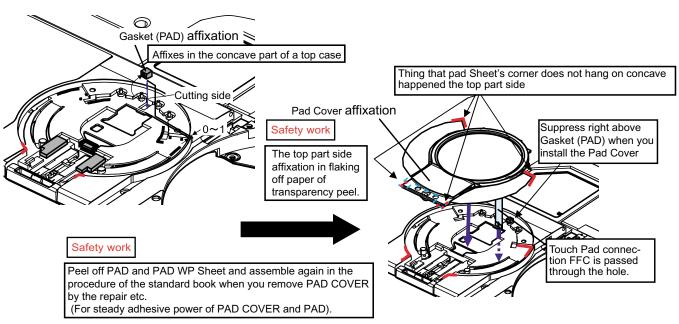


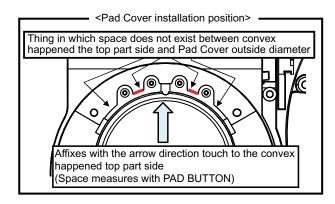
#### 9.3.4.5. Assembly of the Touch Pad

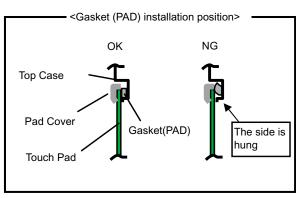


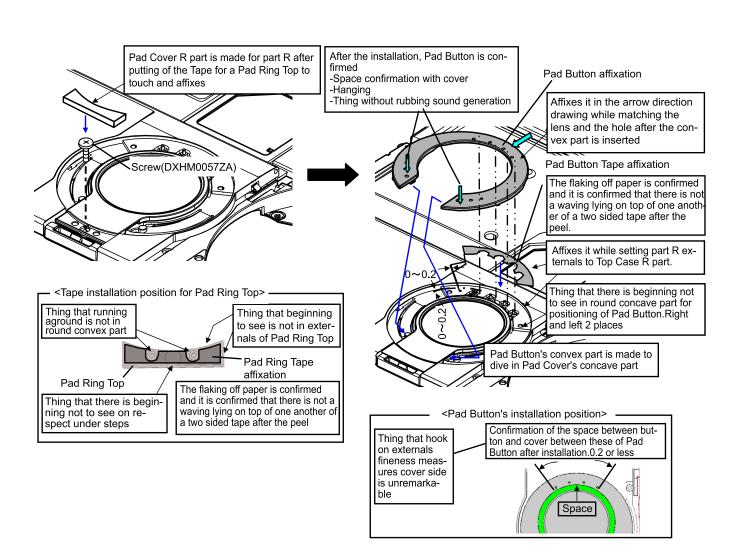




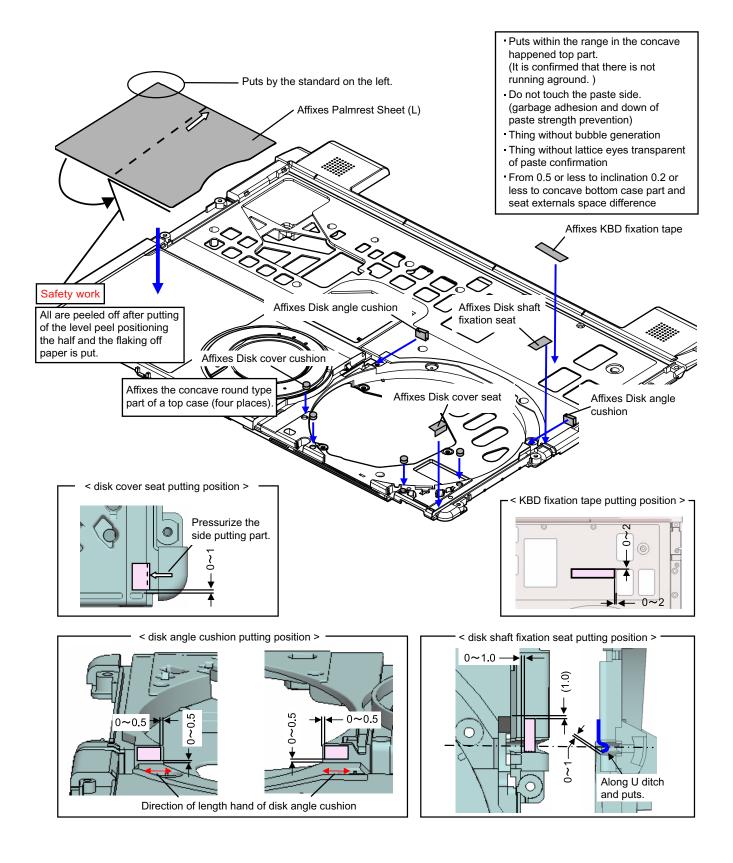




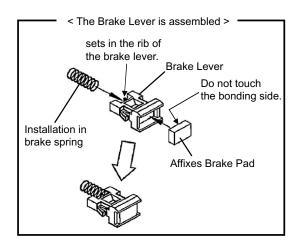


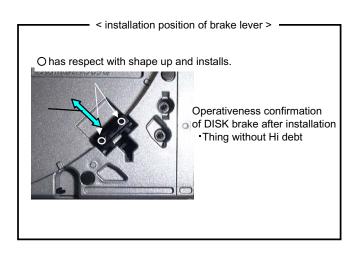


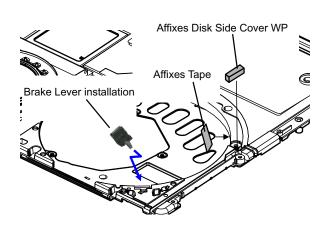
### 9.3.4.6. Putting Sheet

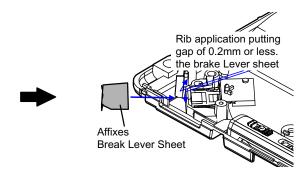


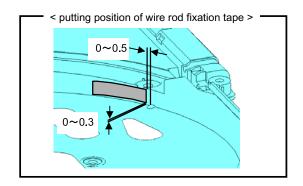
# 9.3.4.7. Assembly of the Break Lever

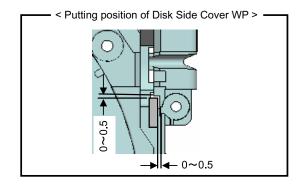




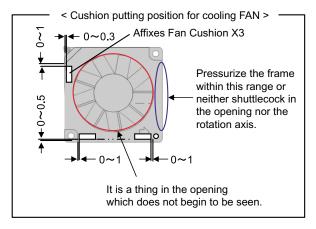


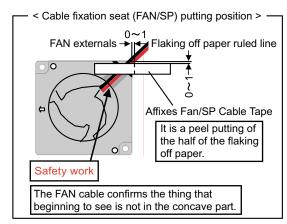


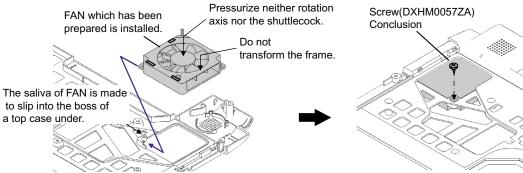




#### 9.3.4.8. Assembly of the FAN





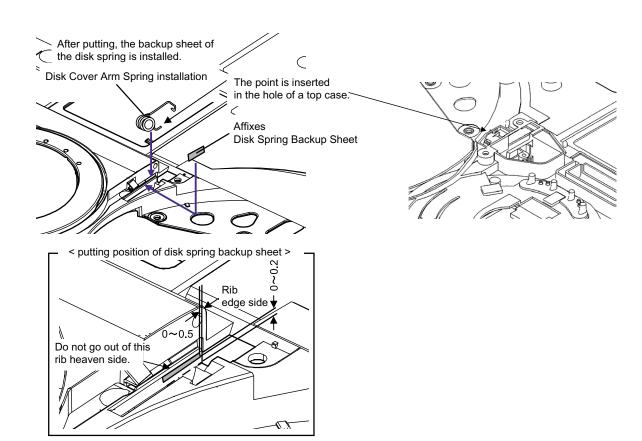


#### \*Work notes

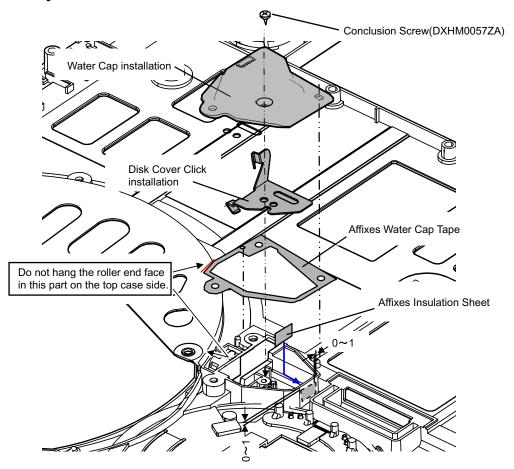
- 1. FAN must not be dropped, and do not add the impact.
- < SCWER tightening torque >

Conclusion first time power : 0.16-0.18N.m  $\{1.6\text{-}1.8\text{kgf.cm}\}$ 

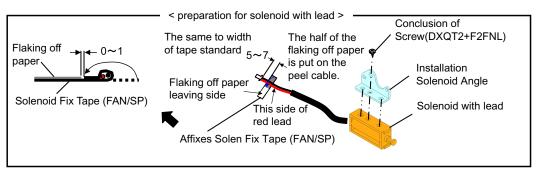
At the repair: 0.10-0.12N.m {1.0-1.2kgf.cm}

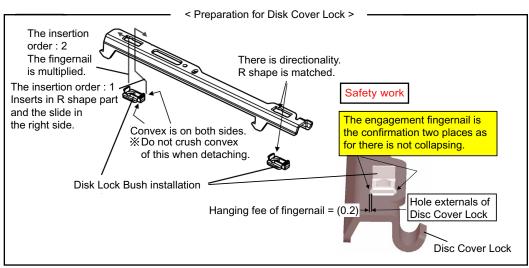


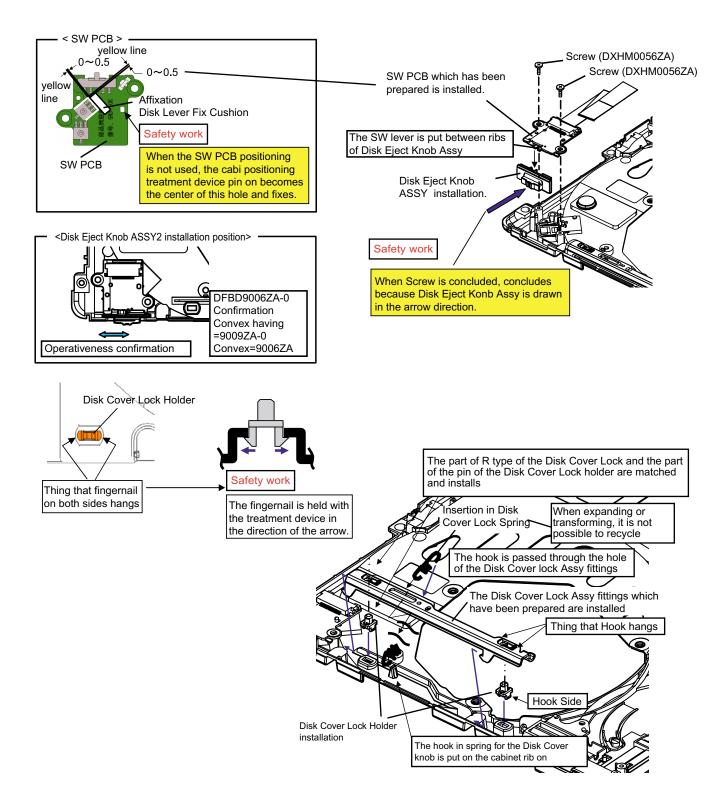
### 9.3.4.9. Assembly of the Disk Cover Click



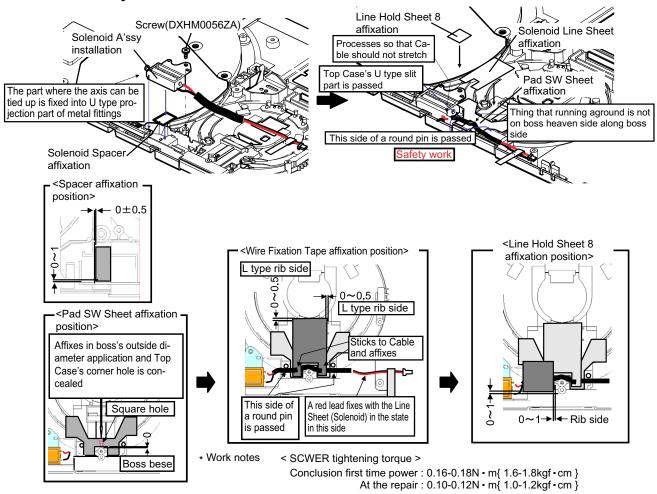
# 9.3.4.10. Assembly of the Disk Cover Lock / SW PCB



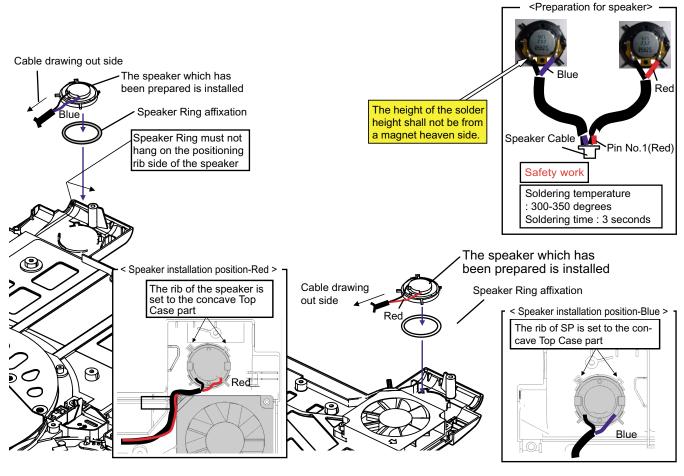




#### 9.3.4.11. Assembly of the Solenoid

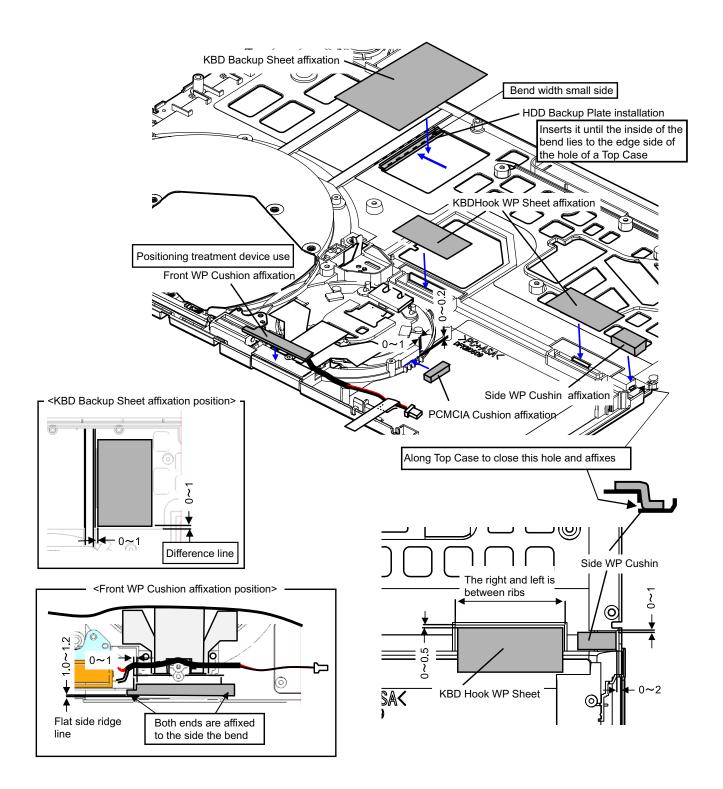


### 9.3.4.12. Assembly of the Speaker

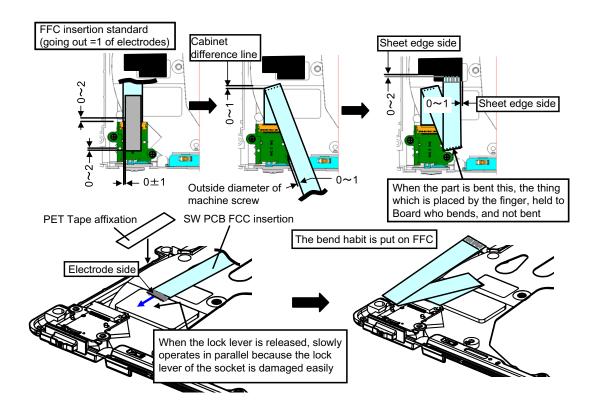


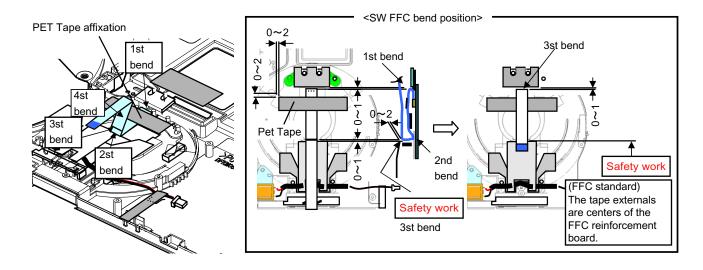
9.3.4.13. Wiring Speaker Cable <Processing of SP/FAN Cable> Safety work fixes with the tape Suppresses on the Top Case side and processes. (Do not float from the SP magnet heaven side) by processing SP/FAN Cable to the Fan side SP/FAN Cable fixes Loosening is given so with the tape prepared that the load should not for Fan through a left SP/FAN Cable join the soldering part. side of Fan Processes left forward by the standard of the outside diameter of the drawing out boss in the Fan Thing that running side drawing aground is not in this rib Thing in which Cable's com Thing without loosening ing in succession does not which runs aground on exist between these this boss heaven side O 0 0 Passes between these It is along the side root of Fan Passes between these **6** Safety work Line Hold Sheet 2 It is along the The display "NITTO No.5000 NS' affixation boss side 0 of the flaking off paper of Line Hold Sheet 1 is confirmed. Line Hold Sheet 1 affixation Cable must not enter the range of the coloring part SP Cable FAN Cable-Corner in convex Top Case part -<DVD PWB Sheet projection part affixation position> Safety work Safety work Along of Top Case's rib side Loosening is processed to root and fixes in DVD PWB The tape is along the left of giving. Sheet's projection part Do not run aground in the SP top case side and Magnet. the cable and affixed. Thing to which Cable does not out of slash part internally SP Cable Rib side of Top Case Line Hold Sheet Pin mark 1X4 affixation (O) The display "NITTO No.5000 NS" of the flaking off paper of Line Hold Sheet 1 is confirmed. DVD PWB Sheet affixation  $(\circ)$ Safety worl 0~2 There must not be floatage of the cable from the top case bottom in the tape fixation part. TO) 0 0~1 Top Case difference line DVD PWB Sheet must not out of Top Top Case externals Top Case externals Case externals

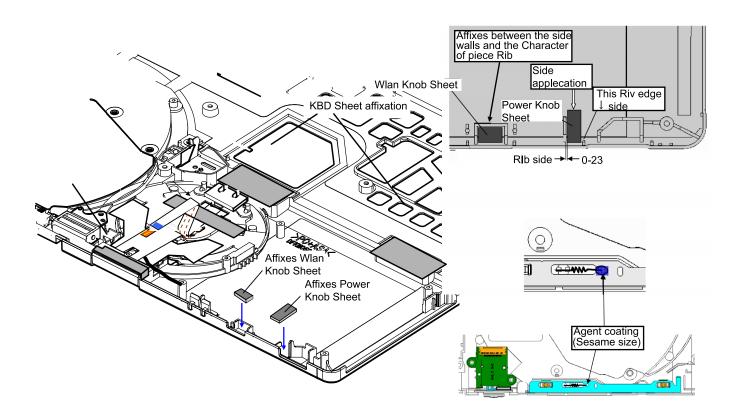
# 9.3.4.14. Putting Cushion / Tape / Sheet



### 9.3.4.15. Assembly of the SW PCB FFC

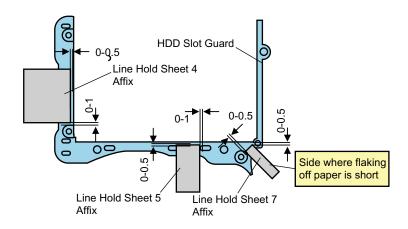


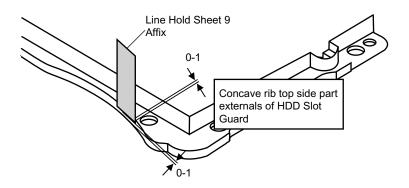




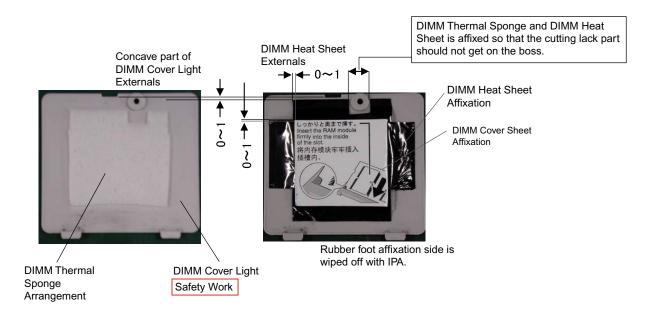
# 9.3.5. Assembly knowhow of the Bottom Case

# 9.3.5.1. Putting Line Hold Sheet

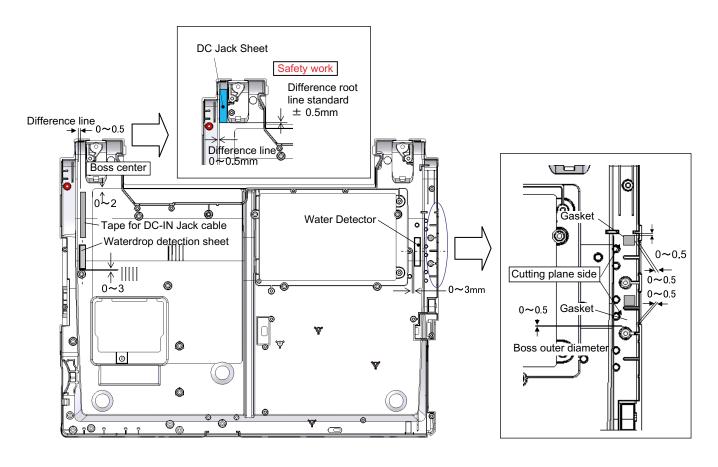


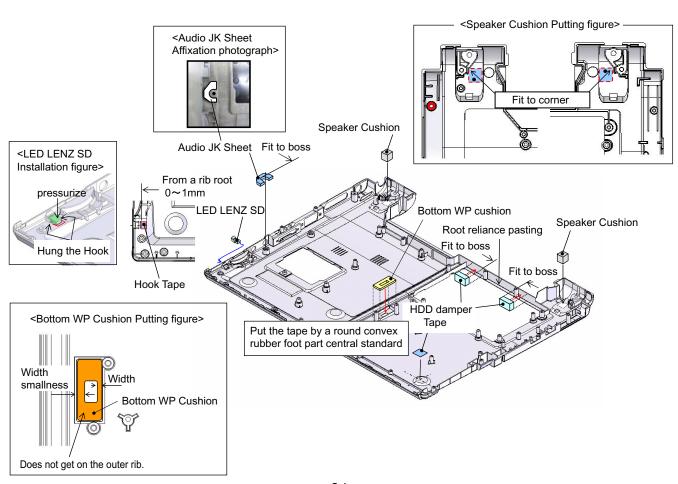


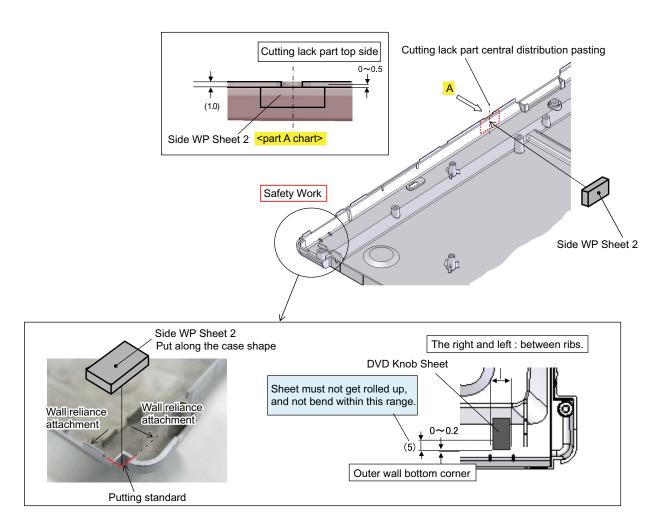
### 9.3.5.2. Assembly of the DIMM Cover



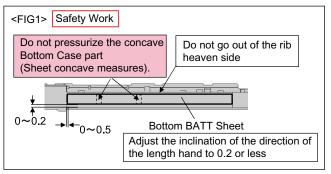
# 9.3.5.3. Putting Sheet / Cushion / Tape







### 9.3.5.4. Putting Foot Rubber



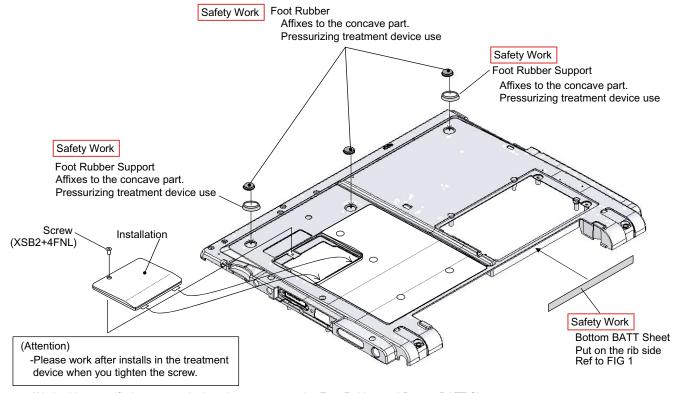
<Notes and procedures when rubber foot / rubber foot (center) putting>

 Wipe rubber foot/ rubber foot (center) pasting side with the dry cloth (3 places)
 (Cautions) - Exchange the cloth (rag) wiped off regularly (twice / day)
 A rubber foot/rubber foot(center) pasting
 (Cautions) - Put on the Bottom Case with tweezers etc.

 Paste so as not to touch the sticking side.

 Pressurizing (treatment device use) condition:

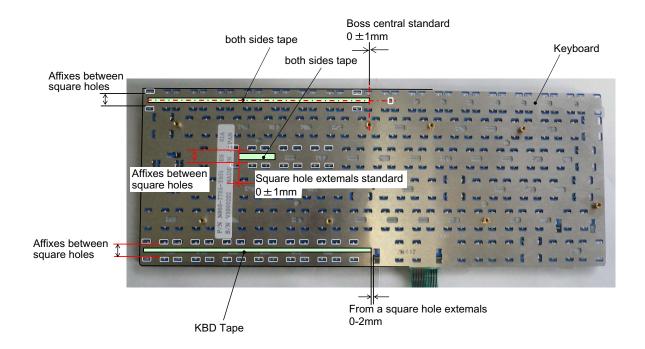
 Pressurizing power: 2.5kgf or more,
 Time: 3 seconds or more



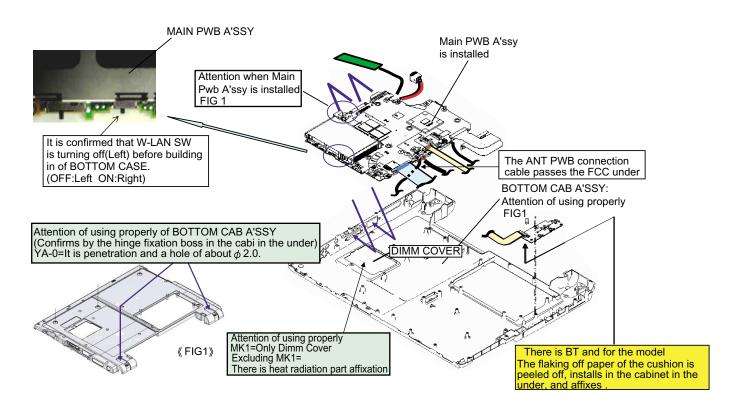
Work with a specified treatment device when you pressurize Foot Rubber and Bottom BATT Sheet .

### 9.3.6. Assembly knowhow of the Body

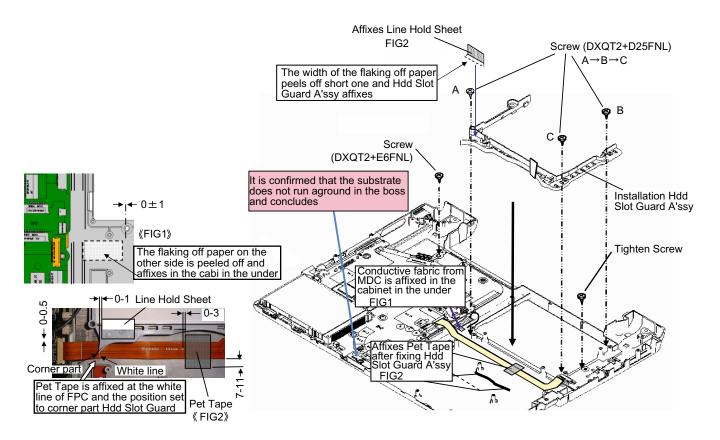
#### 9.3.6.1. Keyboard preparation



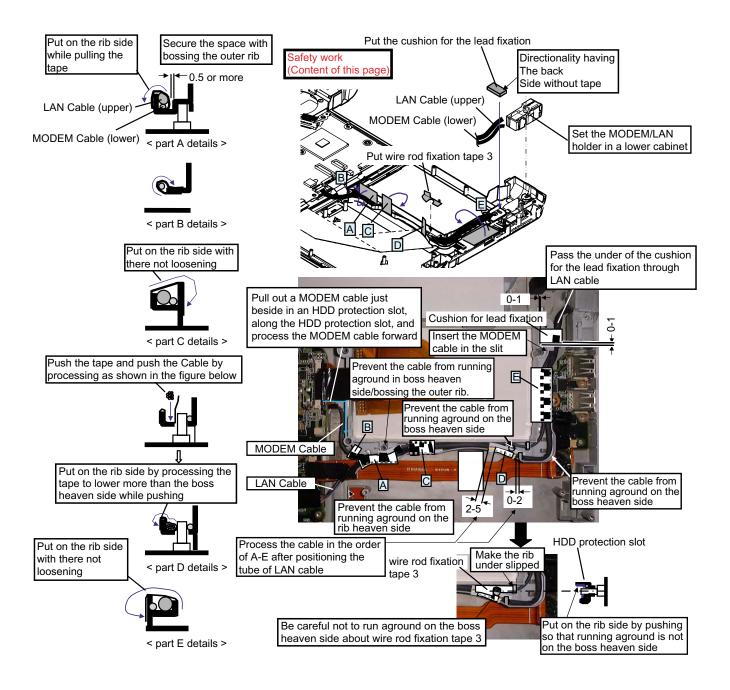
#### 9.3.6.2. Installation of Main Board



### 9.3.6.3. Assembly of the HDD Slot Guard



#### 9.3.6.4. Putting Line Hold Sheet 3 / Line Hold Cushion

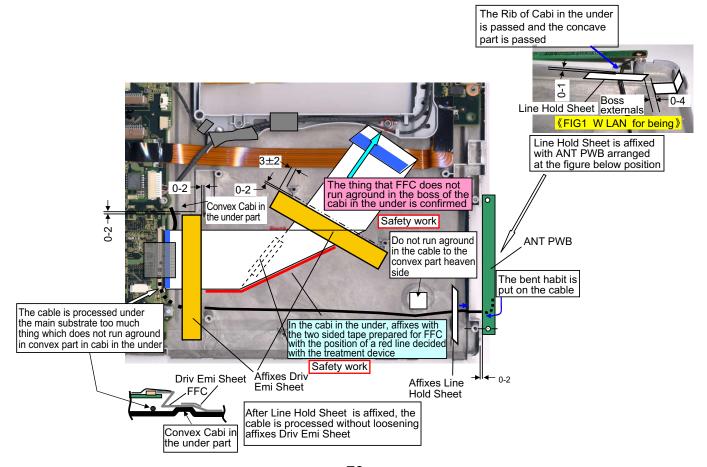


It is the same as last page excluding the undermentioned specification

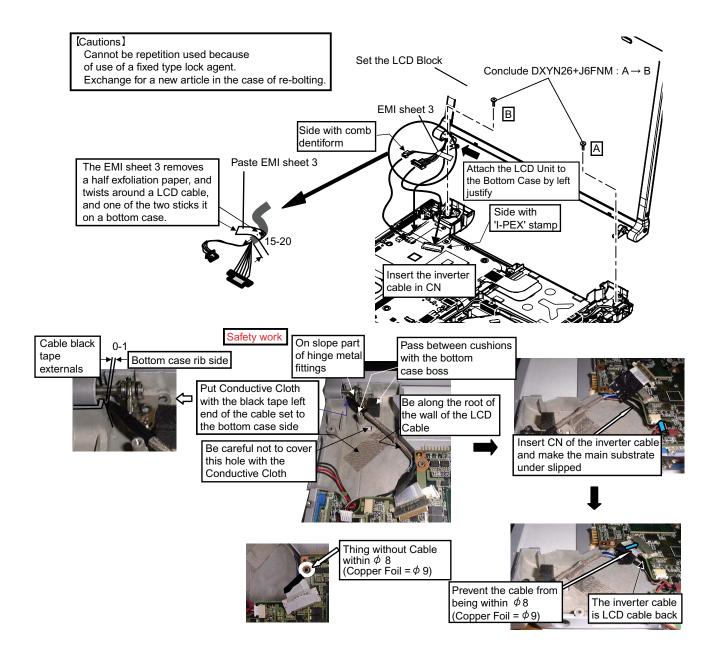
Line Hold Cushion affixes

The part product number depends on last page

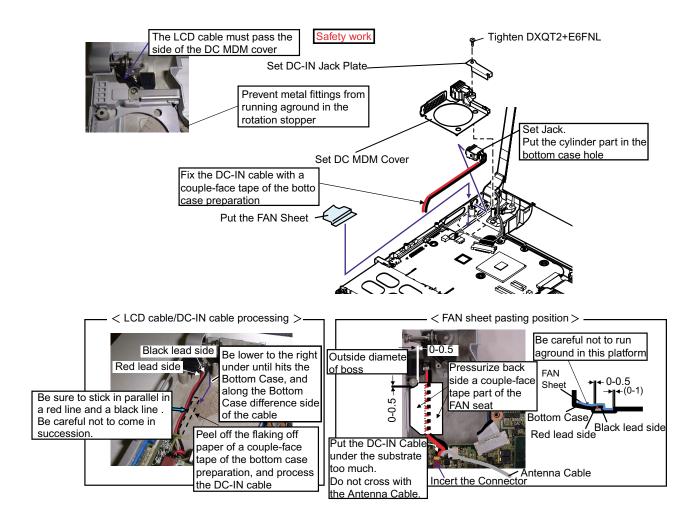
O-0.2



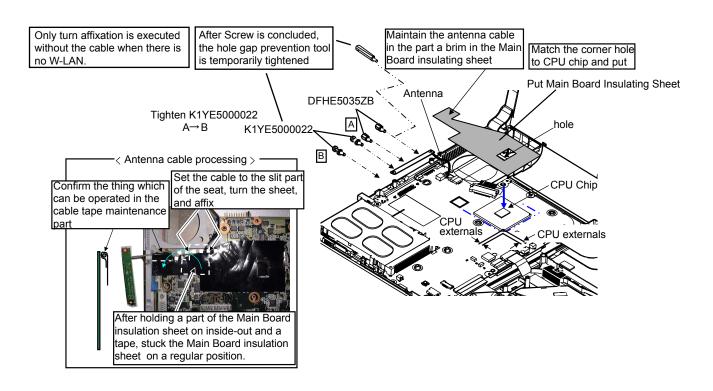
#### 9.3.6.5. Installation of LCD Unit



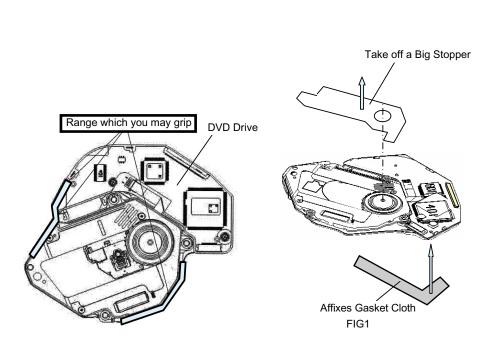
#### 9.3.6.6. Assembly of the DC Jack Plate

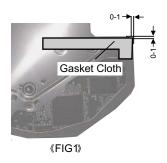


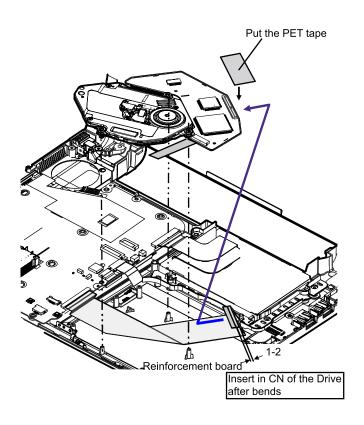
#### 9.3.6.7. Putting Main PCB Sheet

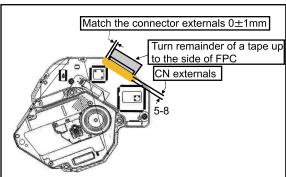


## 9.3.6.8. Assembly of the DVD Drive

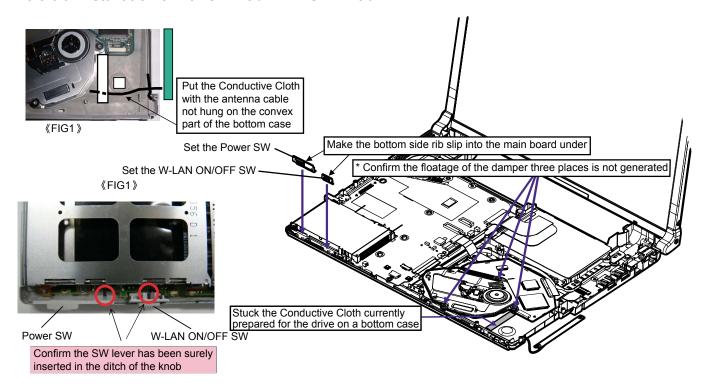




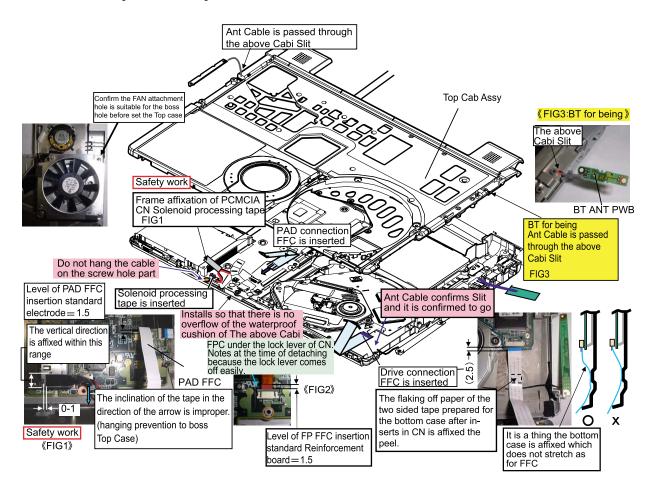




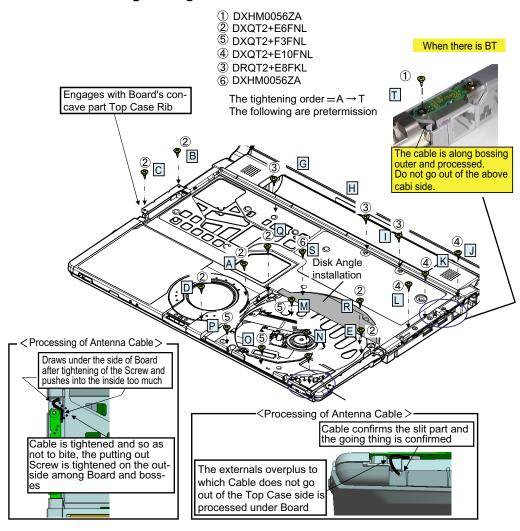
#### 9.3.6.9. Installation of Power Knob / LAN SW Knob



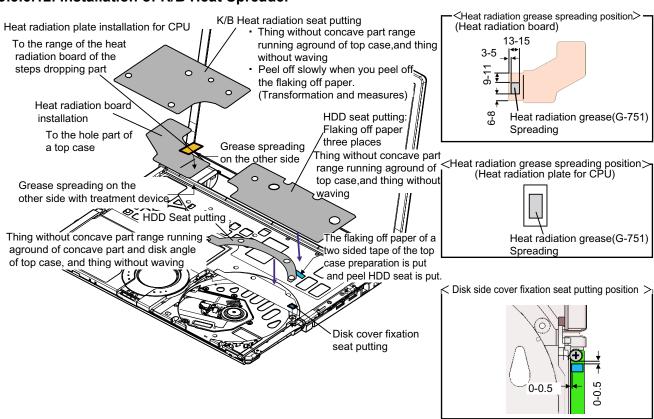
### 9.3.6.10. Assembly of the Body



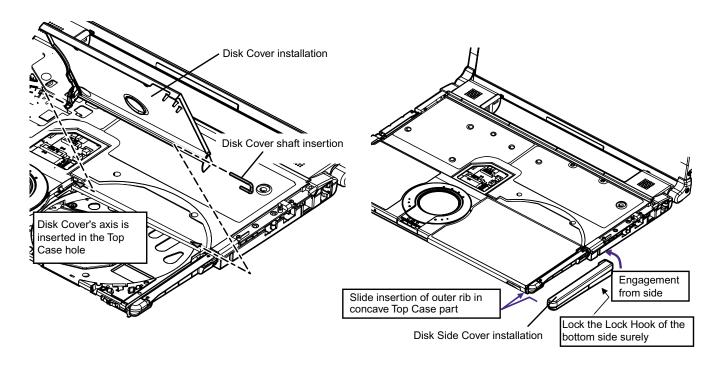
#### 9.3.6.11. Top Case side screw tightening



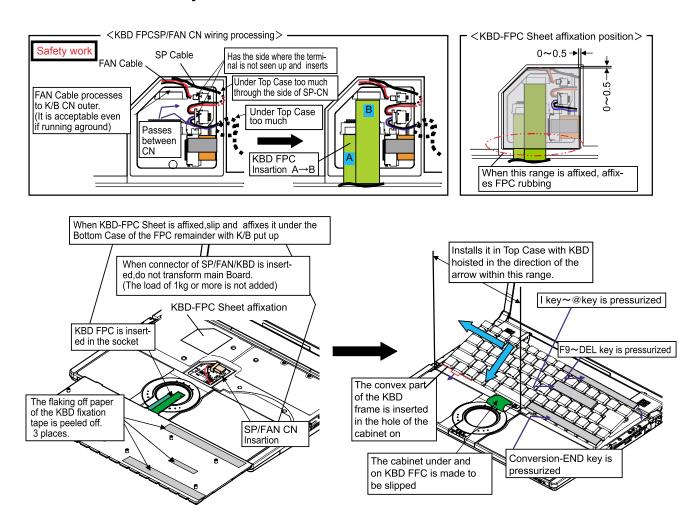
### 9.3.6.12. Installation of K/B Heat Spreader



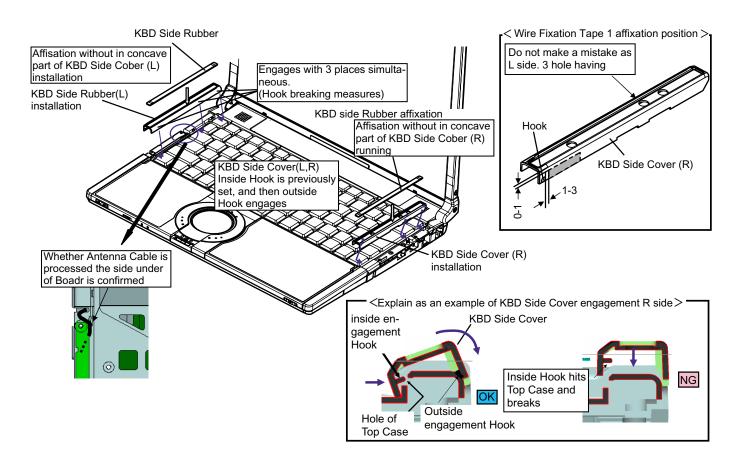
#### 9.3.6.13. Installation of Disk Cover / Disk Side Cover



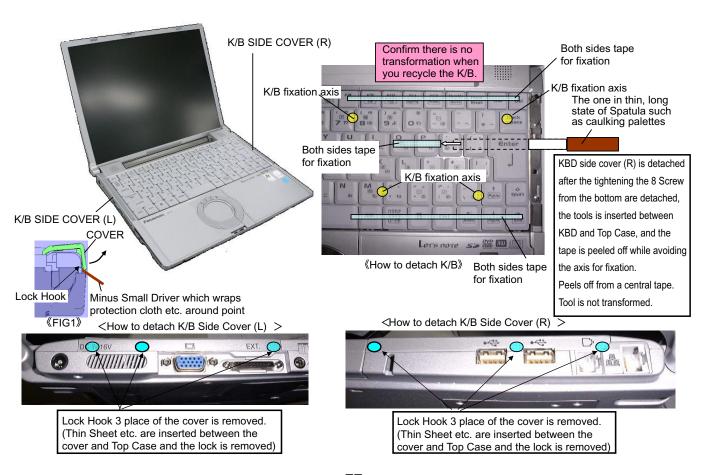
#### 9.3.6.14. Installation of Keyboard



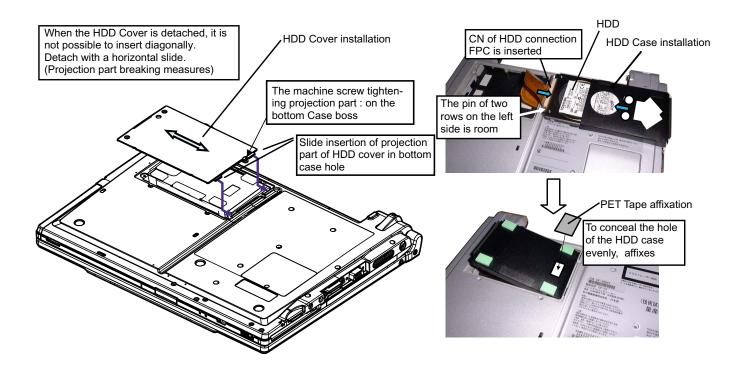
#### 9.3.6.15. Installation of K/B Side Cover



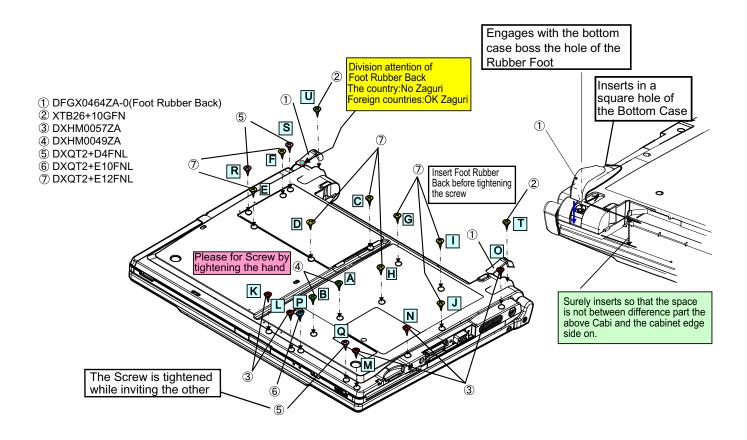
#### 9.3.6.16. How to detach Keyboard and K/B Side Cover



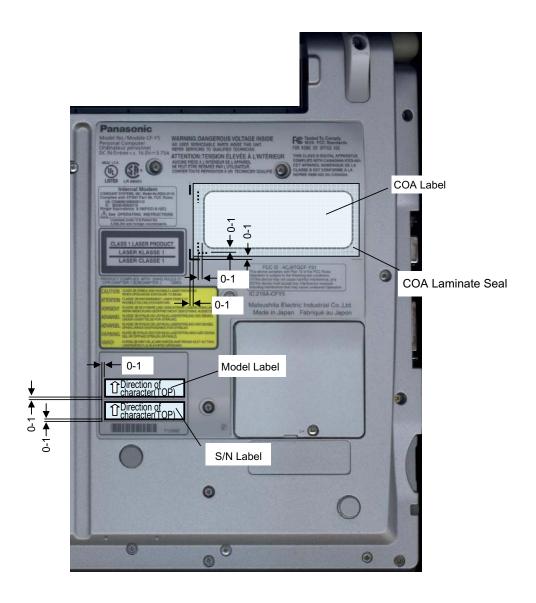
#### 9.3.6.17. Installation of HDD



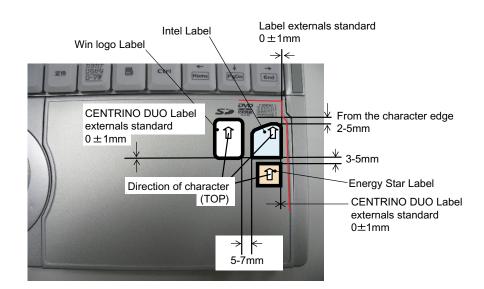
### 9.3.6.18. Bottom Case side screw tightening



## 9.3.6.19. Putting Label

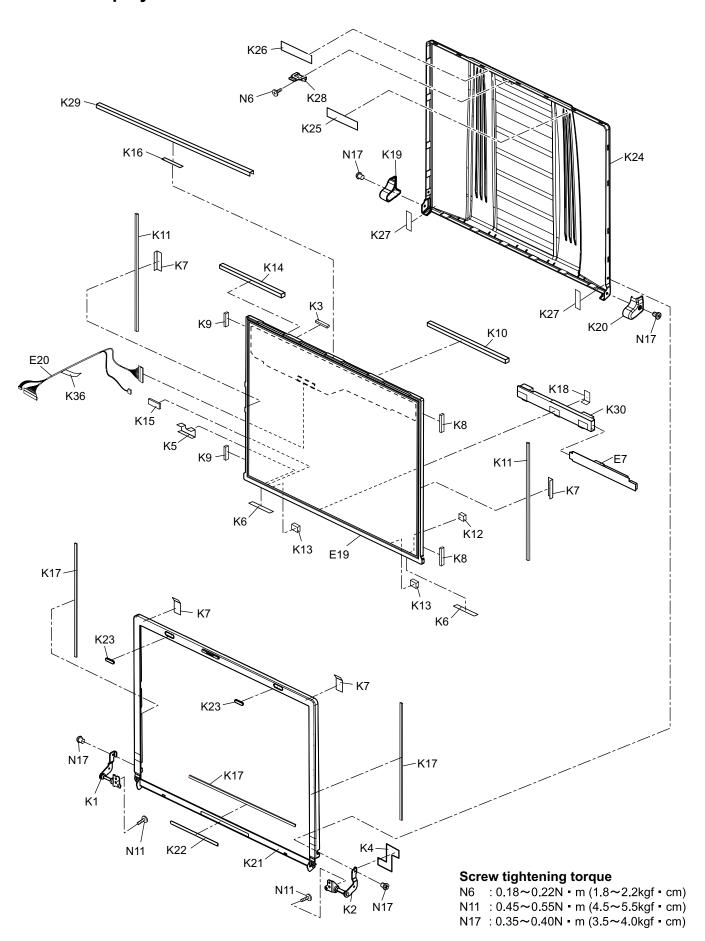




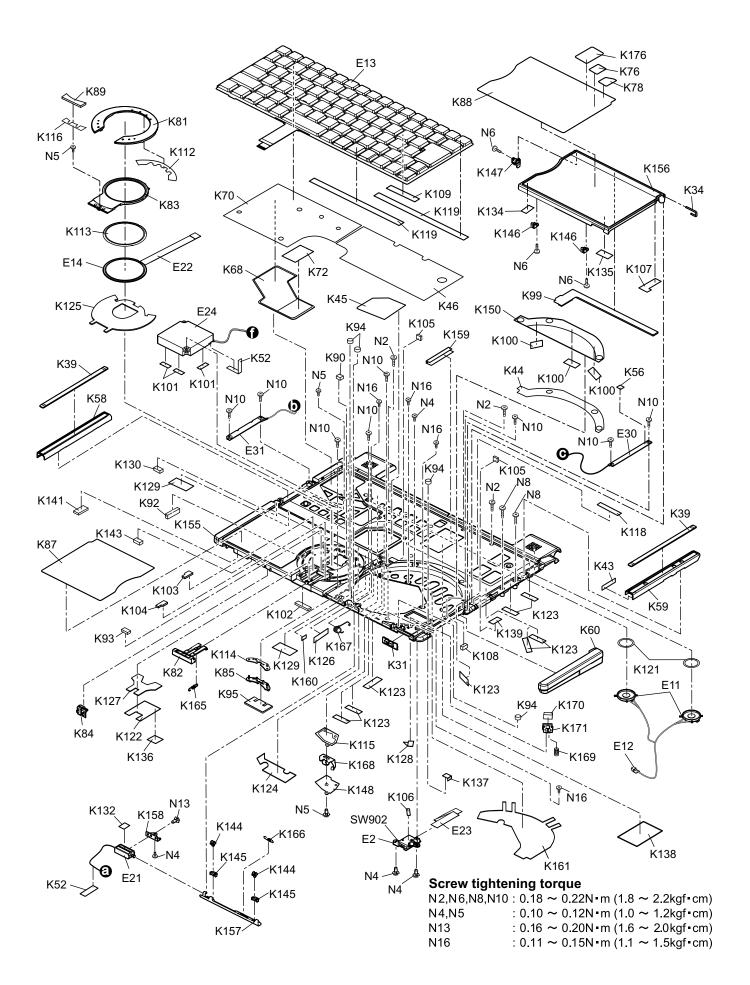


# 10 Exploded View

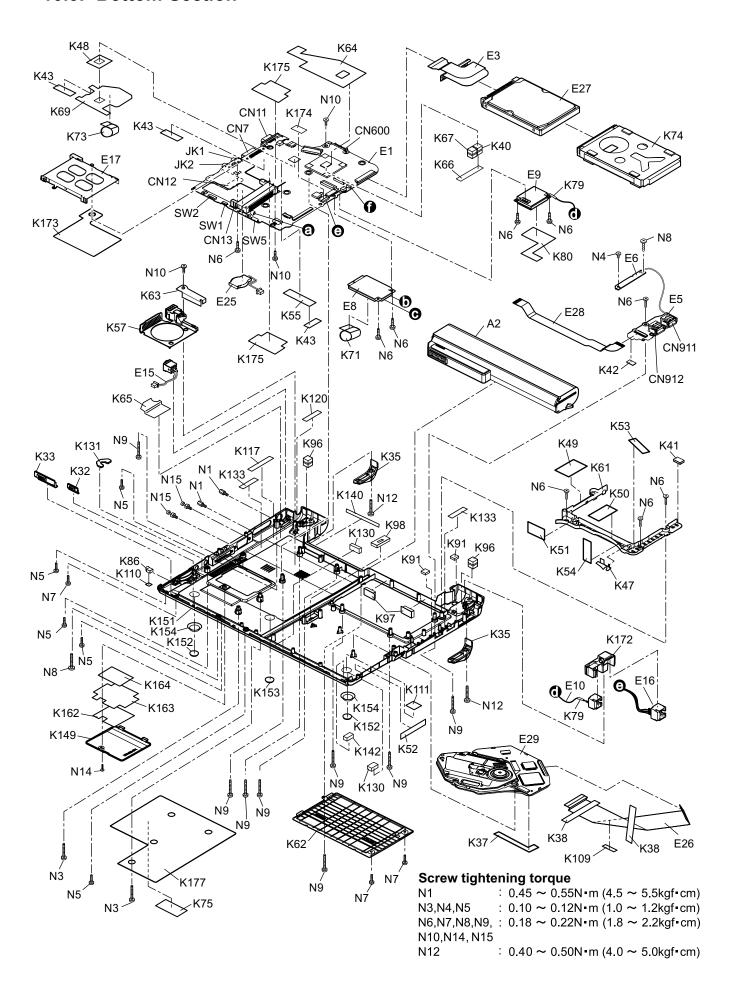
# 10.1. Display Section



## 10.2. Cabinet Section



## 10.3. Bottom Section



# 11 Replacement Parts List

Note : Important Safety Notice

Components identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

### **CF-Y5LWVYZBM**

REF. NO and	AREA	PART NO.	DESCRIPTION		Q'TY
Main Block Unit			•		
E1		DL3U11528ABA	PCB, MAIN	RTL	1
E2		DL3U31528ABA	PCB, SUB DVD	RTL	1
E3		DL3UP1521AAA	HDD FPC UNIT		1
E5		DL3UP1581BBA	BLUETOOTH-USB PCB UNIT(WITH BT)	RTL	1
E6		DL3UP1585BBA	BLUETOOTH ANTENNA PCB UNIT	RTL	1
E7	Δ	N0GF1J000008	INVERTER		1
E8	$\overline{\mathbb{A}}$	N5HZC0000019	WIRELESS LAN MODULE		1
E9	$\overline{\mathbb{A}}$	N5HAZ0000014	MODEM		
E10		DFJS1024ZA	MODEM CABLE		
E11		L0AA20A00007	SPEAKER		2
E12		DFJS1023ZA	SPEAKER CABLE		
E13		N2AZZY000019	KBD (US)		
E14		N2EAYYY00008	TOUCH PAD		1
E15	Λ	DFJS1022YA	DC-IN CABLE		
E16	<u> </u>	DFJS1022TA	LAN CABLE	+	
E16		K1YYZZ000060			
			CONNECTOR		1
E19		L5EDDYY00038	LCD CABLE		1
E20		DFJS1021ZB L9AAAYYB0004	SOLENOID		
E21		DFJK12U112BB	FFC, PAD		
E22 E23		DFJK20T108BB	FFC, SW PCB		
E23		UDQFSEH62	FAN		,
E25		CR-2032/K5B	COIN BATTERY		
E26		DFJK9022ZA	FFC, DRIVE		-
E27	Δ	N3CAYYY00006	HDD		-
E28		DFUP1522YA	FPC, USB		
E29		UJ-833ECD2-Z	DVD MULTI DRIVE		
E30		DL3UP1537AAA	ANTENNA PCB UNIT R	RTL	
E31		DL3UP1538AAA	ANTENNA PCB UNIT L	RTL	,
Accessories					
A1	Δ	DFQX5647ZA	MANUAL(CF-Y5MK1)		,
A2	$\overline{\mathbb{A}}$	NCR-B/601A	LITHIUM ION BATTERY PACK		,
A3		CF-AA1633AM1	AC ADAPTOR		
A4	$\overline{\mathbb{A}}$	K2CG3DR00003	AC CORD		,
A5		DFJS1070ZA	MODEM CABLE		,
Packing Material					
P1		DFPE0772ZA	ACCESSORIES BOX		,
P2		DFPE0842ZA	HOLDER		
P3		DFPN0841ZA	CUSHION T		2
P4		DFPN0842ZA	CUSHION B		2
P5		DFPK1158RA	PACKING CASE		,
Mechanical Parts			<u> </u>		
K1		DFBH3049ZA	HINGE L		
K2		DFBH3050ZA	HINGE R		1
K3		DFHE0843ZA	LCD MAGNET		1

K4	DFHE0994ZA	GASKET CLOTH	1
K5	DFHE0998ZA	CABLE GASKET CLOTH	1
K6	DFHG1774ZA	LCD SIDE DAMPER	2
K7	DFHG1871ZA	LCD SIDE CUSHION 1	4
K8	DFHG1872ZA	LCD SIDE CUSHION 2	2
K9	DFHG1873ZA	LCD SIDE CUSHION 3	2
K10	DFHG1874YA	LCD CUSHION 1	1
K10	DFHG1875ZA	LCD CUSHION2	2
K12	DFHG1876ZA	LCD REAR CUSHION 1	1
K13	DFHG1877YA	LCD REAR CUSHION 2	2
K14	DFHG1911ZA	LCD CUSHION 3	1
K15	DFHG830ZA	CON SPACER	1
K16	DFHP7175ZA	LCD TAPE C	1
K17	DFHP7239ZA	LCD TAPE 1	3
K18	DFHR3E07ZA	INVERTER TAPE	1
K19	DFKE0835YA-0	HINGE COVER L	1
K20	DFKE0836YA-0	HINGE COVER R	1
K21	DFKF0269YA-0	LCD FRONT	1
K22	DFGX0397ZA-0	LCD BATT RUBBER	1
K23	DFHG1546ZB-0	LCD RUBBER	2
K24	DFKM0510ZA-0	LCD REAR	1
K25	DFHR3E08ZA	LCD REAR TAPE 1	1
K26	DFHR3E09ZA	LCD REAR TAPE 2	1
K27	DFHR3E37ZA	LCD REAR TAPE 3	2
K28	DFMD1198VA	LCD HOOK	1
K29	DFMD2162ZA	LCD PROTECT PLATE	1
K30	DFMX1231YA	INVERTER BOX	1
K31	DFBD9009ZA-0	DISK EJECT KNOB ASSY 2	1
K32	DFBD0182ZA-0	LAN SW KNOB	1
K33	DFBD0189ZA-0	POWER KNOB	1
K34	DFDF5023ZA	DISK COVER SHAFT	1
K35	DFGX0464ZA-0	FOOT RUBBER BACK OS	2
K36	DFHE0463ZA	EMI SHEET 3	1
K37	DFHE0957ZA	GASKET CLOTH	1
K38	DFHE1003ZA	DRIVE EMI SHEET	2
K39	DFHG1858ZA-0	KB SIDE RUBBER	2
K40	DFHG1869ZA	CPU CUSHION	1
K41	DFHG1908ZA	LINE HOLD CUSHION	1
K42	DFHG1957ZA	BT PWB CUSHION 1	1
K43	DFHR3D21ZB	LINE HOLD SHEET 1	4
K44	DFHR3D23ZA	DISK ANGLE WP SHEET	1
K45	DFHR3D24ZA	KBD FPC WP SHEET	1
K46	DFHR3D25ZA	HDD WP SHEET	1
K47	DFHR3D59YA	LINE HOLD SHEET 3	1
K48	DFHR3D60ZA	MCH SHEET	1
K49	DFHR3D75ZA	LINE HOLD SHEET 4	1
K50	DFHR3D76ZA	LINE HOLD SHEET 5	1
K51	DFHR3D77ZA	LINE HOLD SHEET 6	1
K52	DFHR3D80ZA	FAN/SP CABLE FIX SHEET	3
K53	DFHR3D82ZA	LINE HOLD SHEET 7	1
K54	DFHR3D84ZA	LINE HOLD SHEET 9	1
K55	DFHR3E22ZA	ANTENNA CABLE PROTECT SHEET	1
K56	DFHR3E35ZA	DISK SIDE COVER FIX SHEET	1
K57	DFHR6230ZA	DC MDM COVER	1
K58	DFKE0837ZA-0	KB SIDE COVER-L	1
K59	DFKE0838ZA-0	KB SIDE COVER-R	1
K60	DFKE0839ZA-0	DISK SIDE COVER	1
K61	DFKE0840ZA	HDD SLOT GUARD	1
K62	DFKE0894ZA-0	HDD COVER OS	1

I/C2	DEMD42027A	DC IACK DI ATE	1 4
K63	DFMD1202ZA	DC JACK PLATE	1 1
K64	DFMX1228ZA	MAIN PWB SHEET	1
K65	DFMY0428ZA	FAN SHEET	1
K66	DFMY0430ZA	CPU THERMAL TAPE	1
K67	DFMY0431ZA	CPU THERMAL SHEET	1
K68	DFMY3221ZA	HEAT SPREADER	1
K69	DFMY3222ZA	HEAT SPREADER BOTTOM	1
K70	DFMY3223ZA	KB HEAT SPREADER	1
K71	DFMY3224ZA	WLAN SHEET	1
K72	DFMY3227ZA	CPU THERMAL PLATE	1
K73	DFMY3228ZA	MCH THERMAL PLATE	1
K74	DFHG1956ZA	HDD CASE Y5 OS	1
K75	DFQX3999XA	OVERLAMINATE-LARGE	1
K76	DFQT0045ZA	ENERGY STAR LABEL	1
K78	DFQT9981ZA	CENTRINO DUO LABEL	1
K79	DFHE0862ZA	FILM IMPEDOR	2
K80	DFHE1009ZA	MDC EMI SHEET	1
K81	DFBC0320ZB-0	PAD BUTTON	1
K82	DFBS0075YA-0	LCD KNOB 2	1
K83	DFGE0134YA-0	PAD COVER	1
K84	DFGL0137ZA-0	LED LENZ BATT	1
K85	DFGL0147ZA-0	LCD LENS PAD	1
K86	DFGL0149ZA-0	LED LENZ SD	1
K87	DFGX0449ZA-0	PALMREST SHEET L	1
K88	DFGX0450XA-0	PALMREST SHEET R(TOUCH MULTI)	1
K89	DFGX9026ZA-0	PAD RING TOP	1
K90	DFHE0993ZA	GASKET PAD	1
K91	DFHE1010ZA	USB GASKET	2
K92	DFHG1778ZA	PCMCIA STOPPER CUSHION	1
K93	DFHG1860ZA	LCD KNOB WP CUHSION	1
K94	DFHG1861ZA	DISK COVER CUSHION	4
K95	DFHG1862ZA	LED CUSHION	1
K96	DFHG1863ZA	SPEAKER CUSHION	2
K97	DFHG1865ZA	HDD DAMPER	2
K98	DFHG1866ZA	BOTTOM WP CUSHION	1
K99	DFHG1867ZA	DISK COVER WP CUSHION	1
K100	DFHG1868ZA	DISK ANGLE CUSHION	_
		FAN CUSHION	3
K101	DFHG1878ZA		
K102	DFHG1898ZA	FRONT WP CUSHION	1
K103	DFHG1899ZA	PAD BUTTON WP CUSHION L	1
K104	DFHG1900ZA	PAD BUTTON WP CUSHION R	1
K105	DFHG1909ZA	DISK ANGLE WP CUSHION	2
K106	DFHG1910ZA	DISK LEVER FIX CUSHION	1
K107	DFHG1912ZA	DISK COVER WP CUSHION SMALL	1
K108	DFHG1914ZA	DISK SIDE COVER WP SHEET	1
K109	DFHP7106YA	BOTH SLDES TAPE	2
K110	DFHP7187ZA	HOOK TAPE	1
K111	DFHP7200ZA	AHDESIVE TAPE	1
K112	DFHP7236ZA	PAD BUTTON TAPE	1
K113	DFHP7237ZA	PAD COVER TAPE	1
K114	DFHP7238ZA	PAD LENS TAPE	1
K115	DFHP7248ZA	WATER CAP TAPE	1
K116	DFHP7249ZA	PAD RING TOP TAPE	1
K117	DFHP7253ZA	DC JACK CABLE TAPE	1
K118	DFHP7254ZA	KBD FIX TAPE	1
K119	DFHP7255ZA	KBD TAPE	2
K120	DFHR3067ZA	DU CON SCREEN SHEET B	1
K121	DFHR3812YA	SPEAKER RING 20	2
K122	DFHR3D20ZA	SOLENOID LINE HOLD SHEET	1
	1	1	

K124	K123	DFHR3D21YA	LINE HOLD SHEET 1	8
K125				1
K126				1
K127				1
K128				1
K129				
K130				
K131				
K132				
K133         DFHR3D74ZA         WATER DETECTOR         2           K134         DFHR3D78ZA         DISK COVER SPACER 1         1           K135         DFHR3D78ZA         DISK COVER SPACER 2         1           K136         DFHR3D83ZA         LINE HOLD SHEET 8         1           K137         DFHR3D83ZA         LINE HOLD SHEET 8         1           K138         DFHR3E05ZA         KIBC COVER SHEET         1           K139         DFHR3E05ZA         KIBD BACKUP SHEET         1           K140         DFHR3E11ZB         DISK SHAET FIX SHEET         1           K1410         DFHR3E86ZA         POWER KNOB SHEET         1           K1412         DFHR3E86ZA         POWER KNOB SHEET         1           K142         DFHR3E87ZA         DVD KNOB SHEE         1           K143         DFHR317ZA         WLAN KNOB SHEET         1           K144         DFHR318SZA         DISK COVER LOCK HOLDER         2           K1445         DFHR618SZA         DISK COVER LOCK HOLDER         2           K1446         DFHR6236ZA         DISK COVER LOCK HOLDER         2           K1447         DFHR6263EZA         DISK COVER BLOCK         1           K1448         DFHR6266ZA				
K134				
K135         DFHR3D792A         DISK COVER SPACER 2         1           K136         DFHR3D83CA         LINB HOLD SHEET 8         1           K137         DFHR3D85ZA         LINB HOLD SHEET 8         1           K138         DFHR3ES6ZA         LINB HOLD SHEET         1           K139         DFHR3ES6ZA         KBD BACKUP SHEET         1           K140         DFHR3E3BZA         BOTTOM BATTERY SHEET         1           K141         DFHR3E86ZA         POWER KNOB SHEET         1           K141         DFHR3E86ZA         POWER KNOB SHEET         1           K142         DFHR3E3ZA         DVO KNOB SHEE         1           K143         DFHR3F17ZA         WLAN KNOB SHEET         1           K144         DFHR818ZA         DISK COVER LOCK HOLDER         2           K145         DFHR618BZA         DISK COVER LOCK BUSH         2           K146         DFHR6236ZA         DISK COVER HOOK         2           K147         DFHR6263EZA         DISK COVER HOOK         1           K148         DFHR6267ZA         DISK COVER SIDE HOOK         1           K148         DFHR6268ZA         WATER CAP         1           K149         DFKEC6815ZA-0         DISM COVE				
K136         DFHR3D83ZA         LINE HOLD SHEET 8         1           K137         DFHR3D85ZA         DISK COVER SHEET         1           K138         DFHR3E05ZA         MBD BACKUP SHEET         1           K139         DFHR3E11ZB         DISK SHAFT FIX SHEET         1           K140         DFHR3E3ZA         BOTTOM BATTERY SHEET         1           K141         DFHR3E3ZA         BOTTOM BATTERY SHEET         1           K141         DFHR3E3ZA         DVD KNOB SHEE         1           K142         DFHR3E3ZA         DVD KNOB SHEE         1           K143         DFHR3E3ZA         DISK COVER LOCK HOLDER         2           K144         DFHR618SZA         DISK COVER LOCK HOLDER         2           K1445         DFHR6188ZA         DISK COVER LOCK HOLDER         2           K1446         DFHR6188ZA         DISK COVER LOCK HOLDER         2           K1447         DFHR626ZA         DISK COVER LOCK         2           K1448         DFHR626ZA         WATER CAP         1           K1448         DFHR626ZA         WATER CAP         1           K1448         DFHR626ZA         WATER CAP         1           K1540         DFKC608LSA-0         BOTTOM CASE				
K137         DFHR3D85ZA         DISK COVER SHEET         1           K138         DFHR3E05ZA         KBD BACKUP SHEET         1           K139         DFHR3E11ZB         DISK SHAFT FIX SHEET         1           K140         DFHR3E38ZA         BOTTOM BATTERY SHEET         1           K141         DFHR3E38ZA         POWER KNOB SHEET         1           K142         DFHR3E3RZA         DVD KNOB SHEE         1           K143         DFHR3F17ZA         WLAN KNOB SHEET         1           K144         DFHR6175ZA         DISK COVER LOCK HOLDER         2           K1445         DFHR618SZA         DISK LOCK BUSH         2           K146         DFHR6233ZA         DISK COVER HOOK         2           K147         DFHR6267ZA         DISK COVER BUSH         2           K148         DFHR6268ZA         DISK COVER BUSH         2           K149         DFKE0815ZA-0         DISK COVER BUSH         1           K150         DFK60841ZA         DISK ANGLE         1           K151         DFK60288YA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         FOOT RUBBER         2           K153         DFGX0469ZA-0         FOOT CENTER OS				1
K138         DFHR3E05ZA         KBD BACKUP SHEET         1           K139         DFHR3E11ZB         DISK SHAFT FIX SHEET         1           K140         DFHR3E33ZA         BOTTOM BATTERY SHEET         1           K141         DFHR3E86ZA         POWER KNOB SHEET         1           K142         DFHR3E87ZA         DVD KNOB SHEET         1           K142         DFHR3E87ZA         DVD KNOB SHEET         1           K143         DFHR3E87ZA         DISK COVER LOCK HOLDER         2           K144         DFHR617SZA         DISK COVER LOCK HOLDER         2           K145         DFHR618SZA         DISK COVER HOOK         2           K146         DFHR626ZA         DISK COVER BIDE HOOK         2           K147         DFHR626ZA         DISK COVER SIDE HOOK         1           K148         DFHR626SZA         WATER CAP         1           K148         DFHR626SZA         WATER CAP         1           K149         DFKE0815ZA-0         DIMM COVER LIGHT         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKE0841ZA         DISK ANGLE         1           K152         DFHG377ZA-0         FOOT CENTER OS				1
K139         DFHR3E11ZB         DISK SHAFT FIX SHEET         1           K140         DFHR3E38ZA         BOTTOM BATTERY SHEET         1           K141         DFHR3E38ZA         BOTTOM BATTERY SHEET         1           K142         DFHR3E87ZA         DVD KNOB SHEE         1           K143         DFHR3F17ZA         WLAN KNOB SHEET         1           K144         DFHR6175ZA         DISK COVER LOCK HOLDER         2           K145         DFHR6188ZA         DISK COVER LOCK HOLDER         2           K146         DFHR6236ZA         DISK COVER LOCK HOLDER         2           K146         DFHR6286ZA         DISK COVER LOCK HOLDER         2           K146         DFHR6286ZA         DISK COVER LOCK HOLDER         2           K147         DFHR6286ZA         DISK COVER LOCK HOLDER         2           K148         DFHR6286ZA         DISK COVER LOCK HOLDER         2           K149         DFHR6286ZA         WATER CAP         1           K149         DFHR6286ZA         WATER CAP         1           K150         DFFKC0815ZA-O         DISK COVER LIGHT         1           K151         DFKC081ZA-O         BOTTOM CASE         1           K152         DFHR0377ZA-O<				1
K140         DFHR3E38ZA         BOTTOM BATTERY SHEET         1           K141         DFHR3E86ZA         POWER KNOB SHEET         1           K142         DFHR3E37ZA         DVD KNOB SHEE         1           K143         DFHR3F17ZA         WLAN KNOB SHEET         1           K144         DFHR6175ZA         DISK COVER LOCK HOLDER         2           K145         DFHR6188ZA         DISK COVER LOCK HOLDER         2           K146         DFHR6236ZA         DISK COVER HOOK         2           K147         DFHR626ZA         DISK COVER HOOK         2           K148         DFHR626SZA         WATER CAP         1           K149         DFKE0815ZA-0         DIMM COVER LIGHT         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFK6268YA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         BOTTOM CASE         1           K153         DFGX0468ZA-0         FOOT RUBBER         2           K154         DFGX0468ZA-0         FOOT RUBBER SUPPORT         2           K155         DFKM0511ZA-0         DISK COVER LOCK         1           K156         DFKM0511ZA-0         DISK COVER         <				1
K141         DFHR3E86ZA         POWER KNOB SHEET         1           K142         DFHR3E87ZA         DVD KNOB SHEE         1           K143         DFHR3F17ZA         WAN KNOB SHEET         1           K144         DFHR6188ZA         DISK COVER LOCK HOLDER         2           K145         DFHR6188ZA         DISK COVER HOOK         2           K146         DFHR6267ZA         DISK COVER HOOK         2           K147         DFHR6267ZA         DISK COVER SIDE HOOK         1           K148         DFHR6268ZA         WATER CAP         1           K149         DFKE0815ZA-0         DIMM COVER LIGHT         1           K150         DFK6268YA-0         DIMM COVER LIGHT         1           K151         DFKF0268YA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         FOOT RUBBER         2           K153         DFGX0469ZA-0         FOOT CENTER OS         1           K154         DFGX0469ZA-0         FOOT RUBBER SUPPORT         2           K155         DFKM0509XA-0         TOP CASE WAN         1           K156         DFKM0509XA-0         TOP CASE WAN         1           K157         DFMD1199ZA         DISK COVER LOCK				1
K142         DFHR3E87ZA         DVD KNOB SHEE         1           K143         DFHR3F17ZA         WLAN KNOB SHEET         1           K144         DFHR6175ZA         DISK COVER LOCK HOLDER         2           K145         DFHR6188ZA         DISK COVER LOCK HOLDER         2           K146         DFHR6236ZA         DISK COVER HOOK         2           K147         DFHR6267ZA         DISK COVER HOOK         1           K148         DFHR6268ZA         WATER CAP         1           K149         DFKE0815ZA-0         DIMM COVER LIGHT         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKF0268YA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         FOOT RUBBER         2           K153         DFGX0468ZA-0         FOOT RUBBER SUPPORT         2           K154         DFGX0468ZA-0         FOOT RUBBER SUPPORT         2           K155         DFKM0509XA-0         TOP CASE WAN         1           K156         DFKM0511ZA-0         DISK COVER         1           K157         DFMD1199ZA         DISK COVER LOCK         1           K158         DFMD2174ZA         SOLENOID ANGLE         <				1
K143         DFHR3F17ZA         WLAN KNOB SHEET         1           K144         DFHR6175ZA         DISK COVER LOCK HOLDER         2           K145         DFHR6188ZA         DISK COVER LOCK BUSH         2           K146         DFHR6236ZA         DISK COVER HOOK         2           K147         DFHR6267ZA         DISK COVER SIDE HOOK         1           K148         DFHR626ZA         WATER CAP         1           K149         DFKC0815ZA-O         DIMM COVER LIGHT         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKF0268YA-O         BOTTOM CASE         1           K151         DFKF0268YA-O         BOTTOM CASE         1           K153         DFGX0469ZA-O         FOOT RUBBER         2           K153         DFGX0469ZA-O         FOOT RUBBER SUPPORT         2           K154         DFGX0469ZA-O         FOOT RUBBER SUPPORT         2           K155         DFKM0509XA-O         TOP CASE WAN         1           K156         DFKM0511ZA-O         DISK COVER         1           K157         DFMD1199ZA         DISK COVER LOCK         1           K158         DFMD2174ZA         HDD BACKUP PLATE				1
K144         DFHR6175ZA         DISK COVER LOCK HOLDER         2           K145         DFHR6188ZA         DISK LOCK BUSH         2           K146         DFHR6236ZA         DISK COVER HOOK         2           K147         DFHR626ZA         DISK COVER HOOK         1           K148         DFHR626ZA         DISK COVER SIDE HOOK         1           K149         DFHR626ZA         WATER CAP         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKE0841ZA         DISK ANGLE         1           K152         DFHG377ZA-0         BOTTOM CASE         1           K153         DFGX0469ZA-0         FOOT RUBBER         2           K153         DFGX0469ZA-0         FOOT RUBBER SUPPORT         2           K154         DFGX0469ZA-0         FOOT RUBBER SUPPORT         2           K155         DFKM0509XA-0         TOP CASE WAN         1           K156         DFKM0511ZA-0         DISK COVER         1           K157         DFMD199ZA         DISK COVER LOCK         1           K158         DFMD194ZA         SOLENOID ANGLE         1           K158         DFMD1201ZA         SOLENOID ANGLE         1     <				1
K145         DFHR6188ZA         DISK LOCK BUSH         2           K146         DFHR6236ZA         DISK COVER HOOK         2           K147         DFHR6267ZA         DISK COVER SIDE HOOK         1           K148         DFHR6268ZA         WATER CAP         1           K149         DFKE0815ZA-0         DIMM COVER LIGHT         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKE0841ZA         DBOTTOM CASE         1           K151         DFKE0847ZA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         FOOT RUBBER         2           K153         DFGX0469ZA-0         FOOT CENTER OS         1           K154         DFGX0468ZA-0         FOOT CENTER OS         1           K155         DFKM0509XA-0         TOO CASE WAN         1           K156         DFKM0511ZA-0         DISK COVER         1           K157         DFMD1199ZA         DISK COVER LOCK         1           K158         DFMD1199ZA         DISK COVER LOCK         1           K158         DFMD2174ZA         HDD BACKUP PLATE         1           K160         DFMX0881ZA         INSULATION SHEET         1 <td></td> <td></td> <td></td> <td>1</td>				1
K146         DFHR6236ZA         DISK COVER HOOK         2           K147         DFHR6267ZA         DISK COVER SIDE HOOK         1           K148         DFHR6268ZA         WATER CAP         1           K149         DFKE0815ZA-0         DIMM COVER LIGHT         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKF0268YA-0         BOTTOM CASE         1           K151         DFKF0268YA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         FOOT RUBBER         2           K153         DFGX0469ZA-0         FOOT CENTER OS         1           K154         DFGX0468ZA-0         FOOT RUBBER SUPPORT         2           K155         DFKM0509XA-0         TOP CASE WAN         1           K156         DFKM0509XA-0         TOP CASE WAN         1           K157         DFMD199ZA         DISK COVER         1           K156         DFKM0509XA-0         TOP CASE WAN         1           K157         DFMD1199ZA         DISK COVER LOCK         1           K158         DFMD1199ZA         DISK COVER LOCK         1           K158         DFMD2174ZA         HDD BACKUP PLATE         1 <td></td> <td></td> <td></td> <td></td>				
K147         DFHR6267ZA         DISK COVER SIDE HOOK         1           K148         DFHR6268ZA         WATER CAP         1           K149         DFKE0815ZA-0         DIMM COVER LIGHT         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKF0268YA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         FOOT RUBBER         2           K153         DFGX0469ZA-0         FOOT RUBBER         2           K154         DFGX0468ZA-0         FOOT RUBBER SUPPORT         2           K155         DFKM05017ZA-0         FOOT RUBBER SUPPORT         2           K156         DFKM05017ZA-0         TOP CASE WAN         1           K156         DFKM0517ZA-0         DISK COVER         1           K157         DFMD1199ZA         DISK COVER         1           K158         DFMD1201ZA         SOLENOID ANGLE         1           K159         DFMD121ZA         SOLENOID ANGLE         1           K160         DFMX881ZA         INSULATION SHEET         1           K161         DFMX9432ZA         DVD PWB SHEET         1           K162         DFMY0432ZA         DIMM THERMAL SPONGE         1				
K148         DFHR6268ZA         WATER CAP         1           K149         DFKE0815ZA-0         DIMM COVER LIGHT         1           K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKE0268YA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         FOOT RUBBER         2           K153         DFGX0469ZA-0         FOOT CENTER OS         1           K154         DFGX0469ZA-0         FOOT RUBBER SUPPORT         2           K155         DFKM0509XA-0         TOP CASE WAN         1           K156         DFKM0509XA-0         TOP CASE WAN         1           K157         DFM0511ZA-0         DISK COVER         1           K158         DFMD199ZA         DISK COVER LOCK         1           K158         DFMD1201ZA         SOLENOID ANGLE         1           K159         DFMD2174ZA         HDD BACKUP PLATE         1           K160         DFMX0881ZA         INSULATION SHEET         1           K161         DFMX1229ZA         DVD PWB SHEET         1           K162         DFMY0432ZA         DIMM THERMAL SPONGE         1           K163         DFMY2331ZA         DIMM COVER SHEET T5         1				2
K149       DFKE0815ZA-0       DIMM COVER LIGHT       1         K150       DFKE0841ZA       DISK ANGLE       1         K151       DFKF0268YA-0       BOTTOM CASE       1         K152       DFHG377ZA-0       FOOT RUBBER       2         K153       DFGX0469ZA-0       FOOT RUBBER SUPPORT       2         K154       DFGX0468ZA-0       FOOT RUBBER SUPPORT       2         K155       DFKM0509XA-0       TOP CASE WAN       1         K156       DFKM0511ZA-0       DISK COVER       1         K157       DFMD1199ZA       DISK COVER LOCK       1         K158       DFMD1201ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY331ZA       DIMM THERMAL SPONGE       1         K164       DFQT6342ZA       DIMM COVER SHEET       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING				1
K150         DFKE0841ZA         DISK ANGLE         1           K151         DFKF0268YA-0         BOTTOM CASE         1           K152         DFHG377ZA-0         FOOT RUBBER         2           K153         DFGX0469ZA-0         FOOT CENTER OS         1           K154         DFGX0468ZA-0         FOOT RUBBER SUPPORT         2           K155         DFKM0509XA-0         TOP CASE WAN         1           K156         DFKM0511ZA-0         DISK COVER         1           K157         DFMD1199ZA         DISK COVER LOCK         1           K158         DFMD1201ZA         SOLENOID ANGLE         1           K158         DFMD12174ZA         HDD BACKUP PLATE         1           K160         DFMX0881ZA         INSULATION SHEET         1           K161         DFMX1229ZA         DVD PWB SHEET         1           K162         DFMY04322ZA         DIMM THERMAL SPONGE         1           K163         DFMY3231ZA         DIMM HEAT SHEET T5         1           K164         DFQT6342ZA         DIMM COVER SHEET T5         1           K165         DFUD0041ZA         LCD LATCH SPRING         1           K166         DFUD0042ZA         DISK COVER LOCK SPRING				1
K151       DFKF0268YA-0       BOTTOM CASE       1         K152       DFHG377ZA-0       FOOT RUBBER       2         K153       DFGX0469ZA-0       FOOT CENTER OS       1         K154       DFGX0468ZA-0       FOOT RUBBER SUPPORT       2         K155       DFKM0509XA-0       TOP CASE WAN       1         K156       DFKM0511ZA-0       DISK COVER       1         K157       DFMD1199ZA       DISK COVER LOCK       1         K158       DFMD1201ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX0881ZA       INSULATION SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY0432ZA       DIMM THERMAL SPONGE       1         K164       DFQT634ZZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN081ZA       DISK COVER LOCK SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP </td <td></td> <td></td> <td></td> <td>1</td>				1
K152       DFHG377ZA-0       FOOT RUBBER       2         K153       DFGX0469ZA-0       FOOT CENTER OS       1         K154       DFGX0468ZA-0       FOOT RUBBER SUPPORT       2         K155       DFKM0509XA-0       TOP CASE WAN       1         K156       DFKM0511ZA-0       DISK COVER       1         K157       DFMD1199ZA       DISK COVER LOCK       1         K158       DFMD1201ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0041ZA       LCD LATCH SPRING       1         K167       DFUN081ZA       DISK COVER LOCK SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBG0044ZA       BREAK SPRING		DFKE0841ZA		1
K153       DFGX0469ZA-0       FOOT CENTER OS       1         K154       DFGX0468ZA-0       FOOT RUBBER SUPPORT       2         K155       DFKM0509XA-0       TOP CASE WAN       1         K156       DFKM0511ZA-0       DISK COVER       1         K157       DFMD1199ZA       DISK COVER LOCK       1         K158       DFMD1201ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX0881ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN081ZA       DISK COVER CLICK WP       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK LEVER <t< td=""><td>K151</td><td>DFKF0268YA-0</td><td>BOTTOM CASE</td><td>1</td></t<>	K151	DFKF0268YA-0	BOTTOM CASE	1
K154       DFGX0468ZA-0       FOOT RUBBER SUPPORT       2         K155       DFKM0509XA-0       TOP CASE WAN       1         K156       DFKM0511ZA-0       DISK COVER       1         K157       DFMD1199ZA       DISK COVER LOCK       1         K158       DFMD1201ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER LOCK SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1				2
K155       DFKM0509XA-0       TOP CASE WAN       1         K156       DFKM0511ZA-0       DISK COVER       1         K157       DFMD1199ZA       DISK COVER LOCK       1         K158       DFMD1191ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT634ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD004ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBG0034ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1				1
K156       DFKM0511ZA-0       DISK COVER       1         K157       DFMD1199ZA       DISK COVER LOCK       1         K158       DFMD1201ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY043ZZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT634ZZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBG0032ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK LEVER       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K174       DFMX1230ZB       PCMCIA SHEET       1				2
K157       DFMD1199ZA       DISK COVER LOCK       1         K158       DFMD1201ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER LOCK SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX124ZAZ       LAN ESD SHEET       1				1
K158       DFMD1201ZA       SOLENOID ANGLE       1         K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFHX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2				1
K159       DFMD2174ZA       HDD BACKUP PLATE       1         K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMX1252ZA       MEMORY SPREADER       2         K176       DFQT10046ZA       VISTA CAPABLE LABEL       1<				1
K160       DFMX0881ZA       INSULATION SHEET       1         K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1		DFMD1201ZA		1
K161       DFMX1229ZA       DVD PWB SHEET       1         K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1				1
K162       DFMY0432ZA       DIMM THERMAL SPONGE       1         K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD004ZZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1	K160	DFMX0881ZA	INSULATION SHEET	1
K163       DFMY3231ZA       DIMM HEAT SHEET       1         K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1	K161	DFMX1229ZA	DVD PWB SHEET	1
K164       DFQT6342ZA       DIMM COVER SHEET T5       1         K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1	K162	DFMY0432ZA	DIMM THERMAL SPONGE	1
K165       DFUD0041ZA       LCD LATCH SPRING       1         K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1		DFMY3231ZA		1
K166       DFUD0042ZA       DISK COVER LOCK SPRING       1         K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1		DFQT6342ZA		1
K167       DFUN0081ZA       DISK COVER ARM SPRING       1         K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1	K165	DFUD0041ZA	LCD LATCH SPRING	1
K168       DFUS0313ZA       DISK COVER CLICK WP       1         K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1	K166	DFUD0042ZA	DISK COVER LOCK SPRING	1
K169       JDBC0044ZA       BREAK SPRING       1         K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1	K167	DFUN0081ZA	DISK COVER ARM SPRING	1
K170       JDBG0032ZA       BREAK PAD       1         K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       DFGT1209ZA       BOTTOM SHEET       1	K168	DFUS0313ZA	DISK COVER CLICK WP	1
K171       JDKJ0059ZA       BREAK LEVER       1         K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       MEMORY SPREADER       1         MEMORY SPREADER       1       1	K169	JDBC0044ZA	BREAK SPRING	1
K172       DFHR6232ZB       MODEM LAN HOLDER       1         K173       DFMX1230ZB       PCMCIA SHEET       1         K174       DFMX1244ZA       LAN ESD SHEET       1         K175       DFMY3225ZA       MEMORY SPREADER       2         K176       DFQT0046ZA       VISTA CAPABLE LABEL       1         K177       ⚠ DFGT1209ZA       BOTTOM SHEET       1	K170	JDBG0032ZA	BREAK PAD	1
K173         DFMX1230ZB         PCMCIA SHEET         1           K174         DFMX1244ZA         LAN ESD SHEET         1           K175         DFMY3225ZA         MEMORY SPREADER         2           K176         DFQT0046ZA         VISTA CAPABLE LABEL         1           K177         ⚠ DFGT1209ZA         BOTTOM SHEET         1	K171	JDKJ0059ZA	BREAK LEVER	1
K174         DFMX1244ZA         LAN ESD SHEET         1           K175         DFMY3225ZA         MEMORY SPREADER         2           K176         DFQT0046ZA         VISTA CAPABLE LABEL         1           K177         ⚠ DFGT1209ZA         BOTTOM SHEET         1	K172	DFHR6232ZB	MODEM LAN HOLDER	1
K175         DFMY3225ZA         MEMORY SPREADER         2           K176         DFQT0046ZA         VISTA CAPABLE LABEL         1           K177         ⚠ DFGT1209ZA         BOTTOM SHEET         1	K173	DFMX1230ZB	PCMCIA SHEET	1
K176         DFQT0046ZA         VISTA CAPABLE LABEL         1           K177         ⚠         DFGT1209ZA         BOTTOM SHEET         1	K174	DFMX1244ZA	LAN ESD SHEET	1
K176         DFQT0046ZA         VISTA CAPABLE LABEL         1           K177         ⚠         DFGT1209ZA         BOTTOM SHEET         1	K175	DFMY3225ZA	MEMORY SPREADER	2
K177 🛕 DFGT1209ZA BOTTOM SHEET 1	K176	DFQT0046ZA	VISTA CAPABLE LABEL	1
N1         DFHE5035ZB         SCREW         2           N2         DRQT2+E8FKL         SCREW         3	K177	⚠ DFGT1209ZA	BOTTOM SHEET	1
N2 DRQT2+E8FKL SCREW 3	N1	DFHE5035ZB	SCREW	2
	N2	DRQT2+E8FKL	SCREW	3

N3	DXHM0049ZA	SCREW	2
N4	DXHM0056ZA	SCREW	5
N5	DXHM0057ZA	SCREW	8
N6	DXQT2+D25FNL	SCREW	13
N7	DXQT2+D4FNL	SCREW	3
N8	DXQT2+E10FNL	SCREW	4
N9	DXQT2+E12FNL	SCREW	8
N10	DXQT2+E6FNL	SCREW	11
N11	DXYN26+J6FNM	SCREW	2
N12	XTB26+10GFN	SCREW	2
N13	DXQT2+F2FNL	SCREW	1
N14	XSB2+4FNL	SCREW	1
N15	K1YE50000022	SCREW, IO PIN	2
N16	DXQT2+F3FNL	SCREW	4
N17	DRHM0076ZA	SCREW	4

# **Replacement Parts List**

Note: Important Safety Notice

Components identified by mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

## CF-Y5LWVYZBM (2006/11/16)

REF. NO and AREA	PART NO.	DESCRIPTION	Q'TY
MAIN PCB			
C 1, 212, 708, 711	EEFSX0D331ER	CAPACITOR, 2V, 330µF	4
C 2, 3, 4, 6, 7, 8, 11, 12,	F1J0J1060004	CAPACITOR, 6.3V, 10µF	36
13, 15, 16, 17, 19, 20,			
21, 23, 24, 25, 26, 29,			
30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41,			
C 5, 60, 61, 69, 89, 181,	EEFCX0D221R	CAPACITOR, 2V, 220µF	7
C 9, 10, 14, 18, 22, 27, 50,	F1G1C104A042	CAPACITOR, 16V, 0.1µF	156
51, 52, 57, 64, 65, 66,			
68, 71, 85, 90, 92, 95,			
96, 99, 100, 101, 102,			
105, 106, 107, 108, 111,			
112, 114, 115, 118, 119,			
127, 128, 134, 135, 136,			
137, 142, 143, 144, 145,			
146, 147, 148, 168, 169,			
170, 171, 175, 177, 178,			
180, 182, 183, 187, 188,			
189, 190, 191, 192, 193, 194, 195, 196, 197, 198,			
199, 200, 201, 202, 203,			
204, 205, 207, 208, 210,			
217, 219, 221, 222, 228,			
233, 234, 236, 239, 241,			
243, 245, 247, 249, 252,			
255, 257, 262, 275, 283,			
289, 290, 291, 292, 293,			
294, 295, 296, 298, 305,			
310, 311, 313, 314, 315,			
316, 317, 318, 319, 321,			
323, 326, 328, 332, 347,			
358, 364, 375, 377, 378,			
379, 383, 384, 386, 392,			
393, 394, 402, 406, 413,			
430, 431, 434, 435, 436,			
437. 438. 442. 444. 445.			
C 46, 151, 152, 153, 154,	F1G1E103A062	CAPACITOR, 25V, 0.01µF	23
174, 179, 218, 230, 231,			
238, 240, 260, 272, 277,			
308, 312, 340, 401, 602, 605, 692, 731			
C 48, 58, 59, 62, 63, 70,	F1J0J106A016	CAPACITOR, 6.3V, 10µF	26
72, 74, 87, 93, 167, 176,	1 1000 100/1010	ολι λοιτοις, σ.ον, τομι	20
206, 254, 297, 303, 304,			
325, 339, 368, 395, 441,			
446, 447, 668, 695			
C 49, 251	F1G1H222A496	CAPACITOR, 50V, 2200pF	2
C 53, 54, 165, 166, 337,	F1G1A104A014	CAPACITOR, 10V, 0.1µF	11
342, 343, 344, 345, 729,			
730			
C 55, 56, 67, 78, 79, 94,	F1H1A1050015	CAPACITOR, 10V, 1µF	36
97, 98, 103, 104, 109,			
110, 113, 116, 117, 138,			
139, 140, 141, 172, 173,			
184, 186, 214, 216, 237,			
301, 322, 338, 346, 351,			
390 399 606 694 702 C 73, 76, 88, 91	F1G1A474A018	CAPACITOR, 10V, 0.47µF	4
J 13, 10, 00, 31	1 10174747010	On norror, iov, o.+/µi	4

C 77, 80, 149, 150, 330,	F1J0J4750019	CAPACITOR, 6.3V, 4.7µF	13
341, 348, 370, 372, 373,	1 130347 300 19	CAFACITOR, 0.3V, 4.7μι	13
374, 409, 421			
C 81, 82, 83, 84, 86, 129,	F1H0J1050022	CAPACITOR, 6.3V, 1µF	12
155, 156, 157, 158, 391,			
414	E404110D04540	OADAOITOD 50V 0.0.5	
C 120, 121	F1G1H3R3A543	CAPACITOR, 50V, 3.3pF	2
C 159, 160, 620, 623, 628,	F1G1H220A542	CAPACITOR, 50V, 22pF	8
667, 683, 686 C 213, 215	F1G1H4R0A543	CAPACITOR, 50V, 4pF	2
C 223, 224, 226, 227, 281,	F1G1H330A542	CAPACITOR, 50V, 33pF	11
282, 284, 285, 286, 287,	1 10111000/1042	ολι λοιτοιλ, συν, σορι	''
288			
C 225, 229, 256, 360, 361,	F1G1H102A496	CAPACITOR, 50V, 1000pF	33
387, 388, 389, 403, 405,			
407, 408, 422, 423, 424,			
425, 426, 427, 428, 429,			
443, 619, 622, 626, 644,			
647, 663, 665, 670, 682, 689, 714, 716			
C 235, 624, 649, 687, 718,	F1J0J475A009	CAPACITOR, 6.3V, 4.7µF	6
726		•	
C 242, 248	F1G1H8R0A544	CAPACITOR, 50V, 8pF	2
C 279, 398, 614, 629, 705,	F1K1E106A078	CAPACITOR, 25V, 10µF	12
706, 707, 722, 723, 732,			
733, 734	E40411404000E	CADACITOD 50V 400×F	
C 280, 306, 307, 362, 363, 385, 615, 664, 691	F1G1H1010005	CAPACITOR, 50V, 100pF	9
C 320, 324	F1G1H5R0A543	CAPACITOR, 50V, 5pF	2
C 329	F1L3D1020006	CAPACITOR, 1KV, 1000pF	1
C 333, 334, 335, 336, 349,	F1G0J224A001	CAPACITOR, 6.3V, 0.22µF	7
353, 366	1 10002247001	ολί Λοιτοιί, σ.σν, σ. <u>ε</u> Σμί	,
C 354, 356	F1L0J107A016	CAPACITOR, 6.3V, 100µF	2
C 367, 439	F1G1H471A496	CAPACITOR, 50V, 470pF	2
C 400	F1G1A683A014	CAPACITOR, 10V, 0.068µF	1
C 411, 412, 642	F1G1H470A542	CAPACITOR, 50V, 47pF	3
C 415	F1L1H220A066	CAPACITOR, 50V, 22pF	1
C 601	F1H1H104A731	CAPACITOR, 50V, 0.1µF	1
C 603, 651, 652, 653, 658,	F1L1E106A021	CAPACITOR, 25V, 10µF	8
673, 677, 693		от и тогт от т, штог, тори	
C 607	F1J1E105A009	CAPACITOR, 25V, 1µF	1
C 608	F1J1E104A081	CAPACITOR, 25V, 0.1µF	1
C 611, 612	EEFCX0J101R	CAPACITOR, 6.3V, 100µF	2
C 616, 618, 625, 659, 662,	F1H1H104A748	CAPACITOR, 50V, 0.1µF	15
669, 678, 681, 688, 697,			
699, 700, 703, 704, 719			
C 617, 627	F1H1H103A748	CAPACITOR, 50V, 0.01µF	2
C 621, 648, 661, 666, 672,	F1G1H221A495	CAPACITOR, 50V, 220pF	9
679, 684, 685, 725 C 630, 675	EEFCX0G151R	CAPACITOR, 2V, 150µF	2
C 631, 636, 637, 638, 640,	F1G1C473A004	CAPACITOR, 2V, 150µF	6
724	10104738004	ολί Λοιτοίλ, 10V, 0.047 μΓ	"
C 643	F1G1H151A495	CAPACITOR, 50V, 150pF	1
C 645	F1H1H1830001	CAPACITOR, 50V, 0.018µF	1
C 646	F1G1H561A496	CAPACITOR, 50V, 560pF	1
C 650	F1J1H224A533	CAPACITOR, 50V, 0.22µF	1
C 657, 676, 696	EEFCD0D101ER	CAPACITOR, 2V, 100µF	3
C 660, 690	F1H1H472A748	CAPACITOR, 50V, 4700pF	2
C 671, 680	F1H1H182A748	CAPACITOR, 50V, 4700pf	2
C 698	EEFCD0D151ER	CAPACITOR, 30V, 1800pF	1
C 701		CAPACITOR, 2V, 150µF	1
	F1G1H152A496		
C 715	F1G1H331A496	CAPACITOR, 50V, 330pF	1
C 720	F1H1H222A748	CAPACITOR, 50V, 2200pF	1
CF 1	D4CC1103A038	THERMISTOR	1
CN 2	K1MMH2B00003	CONNECTOR	1
CN 3, 26, 27	K1KA02BA0014	CONNECTOR	3

CN 4		K1MN50BA0153	CONNECTOR	1
CN 6		K1MN24BA0070	CONNECTOR	1
CN 7		K1FY150BA007	CONNECTOR	1
CN 8		K1MN60B00008	CONNECTOR	1
CN 9		K1KA05BA0181	CONNECTOR	1
CN 10		K1KY30BA0062	CONNECTOR	1
CN 11		K1FB315BA003	CONNECTOR	1
CN 12		K1NA09E00076	CONNECTOR	1
CN 13		K1NA68E00096	CONNECTOR	1
CN 14		K1KA08BA0181	CONNECTOR	1
CN 15		K1KA04BA0014	CONNECTOR	1
CN 17		K1KY12A00004	CONNECTOR	1
CN 18		K1MY52BA0190	CONNECTOR	1
CN 20		K1MN12BA0070	CONNECTOR	1
CN 21		K1MY10BA0105	CONNECTOR	1
CN 23		K1KA12BA0181	CONNECTOR	1
CN 24		K1MY16BA0097	CONNECTOR	1
CN 25		K1MY10BA0102	CONNECTOR	1
CN 600		K1KA10B00233	CONNECTOR	1
CN 601		K1KA02B00292	CONNECTOR	1
D 1, 2, 3, 10		MA2J72900L	DIODE	4
				•
D 4		MA3J741E0L	DIODE	1
D 5, 6		B0KB00000044	DIODE	2
D 7, 8, 9, 601, 602, 604		B0ADDH000004	DIODE	6
D 11, 600, 603		B0JCPD000023	DIODE	3
D 12, 619, 621		MA2S111-TX	DIODE	3
D 13,		B3ABB0000196	DIODE	1
D 14		B3AKB0000008	DIODE	1
D 15, 20		B3ACB0000020	DIODE	2
D 16, 17, 18, 19		B3ABB0000164	DIODE	4
D 605		MAZ81200ML	DIODE	1
D 606		MAZ81800ML	DIODE	1
D 607, 622		MA3S132E0L	DIODE	2
D 608		B0JCQD000001	DIODE	1
D 609, 611, 624, 626, 627,		B0JCMD000010	DIODE	8
629, 630, 633		DOJCINIDOGGO TO	BIODE	
D 610, 625, 628		B0JDAE000004	DIODE	3
D 612, 613, 614, 615, 617,		MAZ80510ML	DIODE	6
618				
D 616		MAZ80620ML	DIODE	1
D 620		B2ABAM000002	DIODE	1
D 623, 632, 640		DEDRB081L20	DIODE	3
D 634		MAZ80750ML	ZENER DIODE	1
F 1, 2	Δ	K5H2021A0003	FUSE, 2A	2
F 4	A	K5H402Z00003	FUSE, 4A, 32V	1
F 6	A	K5H202Z00005	FUSE, 2A, 32V	1
F 600	]	K5H802300003	FUSE, 8A	1
IC 1	Δ		CPU	
		C2GBC0000304		1
IC 2		C1CB00002432	IC, CHIP SET	1
IC 3		C1DB00001541	IC, CHIPSET	1
IC 4		C0DBZYY00017	IC	1
IC 5, 6, 7, 8, 9, 10, 11, 12		C3ABSG000030	IC, SDRAM	8
IC 13		C0JBZZ000388	IC, CLOCK GENERATOR	1
IC 15		C0CBCAC00183	IC, REGULATOR	1
IC 16		C0CBCBG00008	IC, REGULATOR	1
IC 17		C1DB00001182	IC, LAN CONTROLLER	1
IC 18		C3EBCG000100	IC, EEPROM	1
IC 19		C0CBCBC00137	IC, REGULATOR	1
IC 20		C1CB00002540	IC, TEMPERATURE CENSOR IC	1
IC 21, 22, 69		C0DBZYY00026	IC, USB POWER SW	3
IC 23		C3EBEC000061	IC, 63B FOWER SW	1
10 20		O3LDLC000001	IO, LLF NOIVI	l l

IC 24	C1DB00001373	IC, USB-ATA CHIP	1
IC 25, 64, 68	C0JBAZ002422	IC, FET SWITCH	3
IC 26, 37, 38	C0EBE0000460	IC	3
IC 27, 29	C0JBAR000515	IC, Q-SWITCH	2
IC 28	C0DBZYY00016	IC	1
IC 30	C1CB00002449	IC, AUDIO CODEC	1
IC 31	C0CBCBC00181	IC	1 1
IC 32	C1AB00002507	IC, AUDIO POWER AMPLIFIER	1
IC 33	C1CB00002268	IC, SECURITY CHIP	1
IC 34	C3FBLY000024	IC, SPI FLASH MEMORY	1
IC 36	C2CBJA000003	IC, MICON	1
IC 30	C2CBJA000003 C0JBAB000832		1
		IC, LOGIC	
IC 43, 44, 54, 55, 61, 614	C0JBAA000362	IC, LOGIC	6
IC 45, 51	C0JBAE000321	IC, LOGIC	2
IC 46, 47, 48, 49,	C0JBAA000345	IC, LOGIC	4
IC 50	C1CB00002295	IC	1
IC 52, 603, 604	C0JBAB000621	IC, LOGIC	3
IC 53, 601	C0ABBA000093	IC, OP AMP	2
IC 58	C0DBZYY00019	IC, POWER MANAGEMENT SWITCH	1
IC 63	C0JBAB000686	LOGIC IC	1
IC 600, 602, 609	C0DBALH00003	IC	3
IC 605	C0DBAYY00155	IC, DC/DC	1
IC 606	C0DBEFH00002	IC, REGULATOR	1
IC 607	C0DBDJH00009	IC, LINER	1
IC 608	C0ABZA000047	IC, AMP	1
IC 610	C0EBE0000333	IC	1
IC 615	C0DBAZZ00098	IC	1
IC 617	C0EBE0000591	IC, RESET	1
KJ 1, 2	K2HC1YYB0027	JACK	2
L 1, 3	G1C1R0MA0076	INDUCTOR	2
L 2	G1C91NM00001	INDUCTOR	1
L 4	J0JJC0000021	INDUCTOR	1
L 5, 7, 11, 15, 26	J0JHC0000074	INDUCTOR	5
L 9, 10, 13, 14, 27, 28, 29,	J0JCC0000074	INDUCTOR	11
30, 31, 32, 33	30300000180	INDUCTOR	''
L 17, 18, 19	J0JBC0000072	INDUCTOR, FILTER	3
L 20	G1C1R0Z00002	INDUCTOR	1
L 21, 22, 23, 24	J0ZZB0000080	IDUCTOR, COMMON MODE FILTER	4
L 25	DDB5Z024E-L	INDUCTOR	1
L 34, 35, 36, 37	DDB5Z024C-L	IDUCTOR, FERRITE PARTS	4
L 38, 39, 40, 41, 42, 43	DDB5Z021C-Y	INDUCTOR	6
L 30, 39, 40, 41, 42, 43	J0MAB0000116	INDUCTOR	1
L 44 L 600	J0JKC000007	INDUCTOR	1
L 600 L 601. 606. 607			
,,	G1C4R7MA0022	INDUCTOR	3
L 602	G1C100MA0022	INDUCTOR	1
L 603	 G1CR56ZA0140	COIL	1
L 604	G1C2R8MA0022	INDUCTOR	1
L 605	G1C220MA0077	INDUCTOR	1
L 608	G1A160H00001	INDUCTOR	1
L 609	G1C4R7MA0273	COIL	1
PA 1, 2, 3	D4FB1R100009	SWITCH	3
Q 1, 24	B1GDCFNN0031	TRANSISTOR	2
Q 2, 3, 4, 25, 34, 604, 606, 619, 645, 646, 651, 652,	B1GBCFJN0037	TRANSISTOR	15
653 657 658	B1CHRC000009	FET	3
653, 657, 658, Q 5, 622, 627		TRANSISTOR	5
Q 5, 622, 627	1B ( ,E(5) )		
Q 5, 622, 627 Q 6, 7, 27, 654, 662	B1CFGD000023		11
Q 5, 622, 627 Q 6, 7, 27, 654, 662 Q 10, 36, 38, 616, 621, 628, 631, 632, 634, 635,	XP0421300L	TRANSISTOR	11
Q 5, 622, 627 Q 6, 7, 27, 654, 662 Q 10, 36, 38, 616, 621,			11 5 1

Q 26	B1GFCFEN0003	TRANSISTOR	1
Q 28, 35, 37	B1MBDCA00004	TRANSISTOR	3
Q 29, 39, 601, 603, 605, 611, 624	B1GBCFNN0042	TRANSISTOR	7
Q 40	B1GBCFNL0017	TRANSISTOR	1
Q 600	XP0421400L	TRANSISTOR	1
Q 602	B1CFMC000008	TRANSISTOR	1
Q 607, 608, 609, 610	B1CHRD000001	TRANSISTOR	4
Q 612, 613	B1CFRD000014	FET	2
Q 614, 643, 647, 659	B1CFGD000003	TRANSISTOR	4
Q 615, 644	B1MBEDA00017	TRANSISTOR	2
Q 637, 639, 641, 642, 650, 656, 660	B1DBGD000006	TRANSISTOR	7
Q 638, 640	B1DFGD000032	TRANSISTOR	2
Q 648	B1MBEDA00018	TRANSISTOR	1
Q 649	B1CFRD000013	FET	1
Q 655	B1DHFD000015	TRANSISTOR	1
Q 661, 665	B1DHFD000017	TRANSISTOR	2
R 1, 57, 58, 62, 190, 218, 235, 272, 273, 275, 392, 393, 478, 479, 480, 492, 656	ERJ2GEJ102X	RESISTOR, 1/16W, 1KΩ	17
R 2, 5, 6, 9	ERJ2GEJ510X	RESISTOR, 1/16W, 51Ω	4
R 13, 14, 65, 203, 237, 332, 350, 362, 413, 464, 465, 466, 467, 473, 474, 502, 504, 508, 608, 609, 667, 668, 673, 676, 677, 678, 679, 697, 811	ERJ2GEJ101X	RESISTOR, 1/16W, 100Ω	29
R 15, 695, 696	ERJ2RKF1001X	RESISTOR, 1/16W, 1KΩ	3
R 16	ERJ2RKF2001X	RESISTOR, 1/16W, 2KΩ	1
R 18	ERJ2RKF51R0X	RESISTOR, 1/16W, 51Ω	1
R 19, 21	ERJ2RKF27R4X	RESISTOR, 1/16W, 27.4Ω	2
R 20, 22, 32, 33	ERJ2RKF54R9X	RESISTOR, 1/16W, 54.9Ω	4
R 24	ERJ2GEJ680X	RESISTOR, 1/16W, 68Ω	1
R 25, 27, 28	ERJ2GEJ560X	RESISTOR, 1/16W, 56Ω	3
R 26	ERJ3GEYJ201V	RESISTOR, 1/16W, 200Ω	1
R 30, 34, 35, 86, 228	ERJ2RKF24R9X	RESISTOR, 1/16W, 24.9Ω	5
R 31, 354, 610, 614, 616, 747	ERJ2GEJ562X	RESISTOR, 1/16W, 5.6KΩ	6
R 37, 39	ERJ2RKF2210X	RESISTOR, 1/16W, 221Ω	2
R 38, 40, 42	ERJ2RKF1000X	RESISTOR, 1/16W, 100Ω	3
R 41	ERJ2RKF2000X	RESISTOR, 1/16W, 200Ω	1
R 63	ERJ2RKF1002X	RESISTOR, 1/16W, 10KΩ	1
R 66, 319, 320, 325, 326, 394, 395	ERJ2GEJ222X	RESISTOR, 1/16W, 2.2KΩ	7
R 74, 75	ERJ2RKF80R6X	RESISTOR, 1/16W, 80.6Ω	2
R 78, 170, 196, 197, 220, 268	D1H81034A024	RESISTOR ARRAY	6
R 79, 80	ERJ2GEJ390X	RESISTOR, 1/16W, 39Ω	2
R 81, 285	ERJ2RKF1501X	RESISTOR, 1/16W, 1.5KΩ	2
R 82	ERJ2RKF2550X	RESISTOR, 1/16W, 255Ω	1
R 83, 84, 85, 327, 328,	ERJ2RKF1500X	RESISTOR, 1/16W, 150Ω	9
329, 488, 489, 490 R 91	ERJ3GEYJ220V	RESISTOR, 1/16W, 22Ω	1

D 00 470 477 004 040	JED 1005 1400)/	IDEOLOTOD 4440W 4040	
R 93, 176, 177, 234, 243,	ERJ2GEJ103X	RESISTOR, 1/16W, 10KΩ	59
263, 264, 277, 282, 283,			
284, 289, 290, 291, 298,			
300, 303, 315, 335, 336,			
338, 348, 349, 358, 372,			
374, 388, 391, 396, 399,			
402, 415, 421, 422, 426,			
428, 437, 444, 447, 448,			
452, 453, 471, 472, 483,			
484, 619, 639, 644, 688,			
704, 708, 712, 713, 728,			
722 724 742 000	ED 120E 1204V	DECICEOD 4/46W 2000	4
R 95, 96, 97, 98	ERJ2GEJ201X	RESISTOR, 1/16W, 200Ω	4
R 99, 100, 101, 102, 127,	D1HG1008A001	RESISTOR ARRAY	8
128, 129, 130			
R 103, 104, 105, 106, 107,	ERJ2GEJ100X	RESISTOR, 1/16W, 10Ω	37
108, 109, 110, 111, 112,			
113, 114, 115, 116, 117,			
118, 119, 120, 121, 122,			
123, 124, 125, 126, 341,			
636, 637, 649, 650, 705,			
706, 716, 717, 725, 726,			
737 738	ED (OCEOES)	DECICTOR AVENUAGE	
R 131, 132, 133, 134, 135,	ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	71
136, 137, 138, 139, 140,			
141, 142, 143, 144, 145,			
146, 147, 148, 149, 150,			
151, 152, 153, 154, 155,			
156, 172, 189, 192, 194,			
224, 226, 233, 238, 239,			
240, 247, 252, 257, 299,			
317, 333, 346, 385, 407,			
430, 435, 439, 440, 449,			
450, 458, 481, 485, 487,			
491, 501, 511, 512, 600,			
692, 703, 719, 760, 761,			
763, 768, 773, 774, 785,			
707	D.4114.5000004	DEGLOTOR ADDAY	
R 157, 158, 159, 160, 161,	D1HA56080001	RESISTOR ARRAY	7
162, 163	ED 1005 1404V	DEGLOTOD AMANA ARRIVO	0.7
R 165, 171, 215, 248, 249,	ERJ2GEJ104X	RESISTOR, 1/16W, 100KΩ	37
250, 308, 309, 310, 311,			
331, 334, 337, 342, 343,			
352, 383, 454, 459, 460,			
461, 475, 476, 503, 506,			
611, 621, 623, 624, 625,			
662, 664, 666, 672, 781,			
782 797 D 166 167 169 160 245	ED 100EV 14D0V	DECISTOR 4/40W 40	
R 166, 167, 168, 169, 245,	ERJ3GEYJ1R0V	RESISTOR, 1/16W, 1Ω	8
699, 762, 769	D1H010044004	DESISTOR APPAY	
R 174	D1H81004A024	RESISTOR ARRAY	1
R 179, 180, 181, 182, 183,	ERJ2GEJ330X	RESISTOR, 1/16W, 33Ω	22
184, 185, 186, 191, 217,			
271, 278, 279, 368, 404,			
424, 493, 494, 496, 497,			
498 499	D411047044004	DECICTOR APPAY	
R 216	D1H84724A024	RESISTOR ARRAY	1
R 219, 265, 266, 267, 455,	DEARA8AJ103M	RESISTOR ARRAY	8
456, 457, 486			
R 221, 222, 295, 443, 463,	ERJ2GEJ470X	RESISTOR, 1/16W, 47Ω	6
469			
R 229	ERJ2RKF22R6X	RESISTOR, 1/16W, 22.6Ω	1
R 242, 254, 270, 292, 347,	ERJ2GEJ473X	RESISTOR, 1/16W, 47KΩ	16
370, 371, 378, 400, 505,			
515, 517, 620, 634, 684,			
780			
R 246	ERJ3GEYJ121V	RESISTOR, 1/16W, 120Ω	1
R 255, 280, 355, 653	ERJ2GEJ334X	RESISTOR, 1/16W, 330KΩ	4
R 258	ERJ2GEJ203X	RESISTOR, 1/16W, 20KΩ	1
			·
R 259	ERJ2GEJ106X	RESISTOR, 1/16W, 10MΩ	1 1

R 260, 361, 397, 398, 622, 661, 669	ERJ2GEJ105X	RESISTOR, 1/16W, 1MΩ	7
R 261	ERJ2RKF3922X	RESISTOR, 1/16W, 39.2KΩ	1
R 262	ERJ2RKF2002X	RESISTOR, 1/16W, 20KΩ	1
R 274, 302, 754	ERJ2GEJ472X	RESISTOR, 1/16W, 4.7KΩ	3
R 286, 287	ERJ2RKF39R0X	RESISTOR, 1/16W, 39Ω	2
R 288	ERJ2RKF2431X	RESISTOR, 1/16W, 2.43KΩ	1
R 294, 296, 767, 775, 776	ERJ3GEY0R00V	RESISTOR, 1/16W, $0\Omega$	5
R 314, 316, 330, 380	ERJ6GEY0R00V	RESISTOR, 1/10W, $0\Omega$	4
R 339, 495	J0JCC0000396	RESISTOR, 1/16W, 120Ω	2
R 353	ERJ2RHD562X	RESISTOR, 1/16W, 5.6KΩ	1
	ERJ2RHD302X ERJ2RKF49R9X	RESISTOR, 1/16W, 49.9Ω	4
R 356, 357, 359, 360			
R 367	EXBV8V750JV	RESISTOR ARRAY	1
R 369, 759	ERJ2RKF5101X	RESISTOR, 1/16W, 5.1KΩ	2
R 376, 377	ERJ3GEYJ330V	RESISTOR, 1/16W, 33Ω	2
R 384	D1H84734A024	RESISTOR ARRAY	1
R 386	ERJ2GEJ1R0X	RESISTOR, 1/16W, 1Ω	1
R 387, 390, 680	ERJ2GEJ223X	RESISTOR, 1/16W, 22KΩ	3
R 401, 470, 757	ERJ2GEJ471X	RESISTOR, 1/16W, 470Ω	3
R 446	ERJ2RKF3901X	RESISTOR, 1/16W, 3.9KΩ	1
R 451, 603, 607	ERJ2RHD103X	RESISTOR, 1/16W, 10KΩ	3
R 462	ERJ6GEYJ221V	RESISTOR, 1/10W, 220Ω	1
R 468	ERJ2GEJ391X	RESISTOR, 1/16W, 390Ω	1
R 507	ERJ2GEJ273X	RESISTOR, 1/16W, 27KΩ	1
R 513	ERJ2GEJ181X	RESISTOR, 1/16W, 180Ω	1
R 601	ERJ3GEYJ562V	RESISTOR, 1/16W, 5.6KΩ	1
R 602	D1ZZ00000046	RESISTOR, 1W, 5mΩ	1
R 604	D1BDR4700001	RESISTOR, 1/8W, 0.47Ω	1
R 605, 613	ERJ2RKD244X	RESISTOR, 1/16W, 240KΩ	2
R 606, 612	ERJ2RKD364X	RESISTOR, 1/16W, 360KΩ	2
R 615, 617	ERJ1TYJ331U	RESISTOR, 1710W, 300RΩ	2
R 618	ERJ3GEYJ3R3V		
		RESISTOR, 1/16W, 3.3Ω	1
R 626, 627	D1BDR1000002	RESISTOR, 1/8W, 0.1Ω	2
R 628, 755, 756	D1BDR0680001	RESISTOR, 1/8W, 0.068Ω	3
R 629, 701, 702, 724, 741, 742, 777	D1BDR0220001	RESISTOR, 1/8W, 0.022Ω	7
R 630, 631	D1BDR018A099	RESISTOR, 1/3W, 0.018Ω	2
R 632	ERJ2RKF1102X	RESISTOR, 1/16W, 11KΩ	1
R 633	ERJ2RKF1302X	RESISTOR, 1/16W, 13KΩ	1
R 635, 654, 718, 720, 739, 745, 772, 778	ERJ2GEJ474X	RESISTOR, 1/16W, 470KΩ	8
R 638, 707, 727	ERJ2GEJ153X	RESISTOR, 1/16W, 15KΩ	3
R 640, 709, 729	ERJ3GEYJ100V	RESISTOR, 1/16W, 19Ω	3
R 641, 648	ERA3YEB622V	RESISTOR, 1/16W, 10Ω	2
R 642, 751	ERA3YKB104V	RESISTOR, 1/16W, 100KΩ	2
R 643, 731	ERA3YEB203V	RESISTOR, 1/16W, 20KΩ	2
R 645	ERJ2GEJ333X	RESISTOR, 1/16W, 33KΩ	1
R 646	ERA3YEB333V	RESISTOR, 1/16W, 33KΩ	1
R 647, 753	ERA3YEB123V	RESISTOR, 1/16W, 12KΩ	2
R 651, 652, 723	D1BDR0330001	RESISTOR, 1/8W, 0.033Ω	3
R 663	ERJ2GEJ684X	RESISTOR, 1/16W, 680KΩ	1
R 665	ERJ2GEJ225X	RESISTOR, 1/16W, 2.2MΩ	1
R 681, 814	ERJ6GEYJ122V	RESISTOR, 1/10W, 1.2KΩ	2
R 682, 683	ERJ6GEYJ222V	RESISTOR, 1/10W, 2.2KΩ	2
R 687	ERJ2RKF5103X	RESISTOR, 1/16W, 510KΩ	1
R 689	ERJ2RKF1003X	RESISTOR, 1/16W, 100KΩ	1
R 690	ERJ2RKF1800X	RESISTOR, 1/16W, 180Ω	1
R 693	ERJ2RHD222X	RESISTOR, 1/16W, 2.2KΩ	1
R 694, 710	ERJ2RKF4701X	RESISTOR, 1/16W, 4.7KΩ	2
R 700	D1ZZ00000093	RESISTOR, 1W, 1mΩ	1
11.100			
R 711, 735	ERJ2RKF1502X	RESISTOR, 1/16W, 15KΩ	2

R 715		ERJ2RKF2402X	RESISTOR, 1/16W, 24KΩ	1
R 721, 779, 824		D1BDR0470002	RESISTOR, 1/8W, 0.047Ω	3
R 730		ERA3YEB621V	RESISTOR, 1/16W, 620Ω	1
R 732		ERA3YEB243V	RESISTOR, 1/16W, 24KΩ	1
R 736		ERJ2RHD123X	RESISTOR, 1/16W, 12KΩ	1
R 740		ERJ2GEJ221X	RESISTOR, 1/16W, 220Ω	1
R 744		ERJ2RKD114X	RESISTOR, 1/16W, 110KΩ	1
R 746		ERJ2RHD3652X	RESISTOR, 1/16W, 36.5KΩ	1
R 748		ERJ2GEJ154X	RESISTOR, 1/16W, 150KΩ	1
R 749, 750		ERJ2RHD302X	RESISTOR, 1/16W, 3KΩ	2
R 752		ERA3YEB153V	RESISTOR, 1/16W, 15KΩ	1
R 758		ERJ2RKF4702X	RESISTOR, 1/16W, 13KΩ	1
R 766,		ERJ3GEYJ101V	RESISTOR, 1/16W, 100Ω	1
R 771		ERJ2RKF6801X	RESISTOR, 1/16W, 6.80KΩ	1
				1
R 783		ERJ2RKD1403X	RESISTOR, 1/16W, 140KΩ	
R 784		ERJ2RHD2002X	RESISTOR, 1/16W, 20KΩ	1
R 790, 791		ERA3YKB154V	RESISTOR, 1/16W, 150KΩ	2
SW 1		K0D112B00071	SW	1
SW 2		ESD165225	SLIDE SWITCH	1
SW 3, 4		EVQPLDA15	SWITCH	2
SW 5		K0ZZ00000617	SW	1
T 1		G5BYC0000015	TRANCE	1
X 1		H0J143500058	OSCILLATOR, 14.318MHz	1
X 2		H0J327200115	OSCILLATOR, 32.768KHz	1
X 3		H0J300500018	CRYSTAL OSCILLATOR	1
X 4		H0J250500067	OSCILLATOR, 25MHz	1
X 5		H2D800400015	OSCILLATOR, 8MHz	1
ZA 1, 2		DRHM0113ZA	SCREW	2
ZA 3, 4		K1YGZZ000060	SPACER	2
SUB PCB				
C 903		F1G1C104A042	CAPACITOR, 16V, 0.1µF	1
CN 900		K1MN20BA0070	CONNECTOR	1
D 901		B3ABB0000196	DIODE	1
IC 901		C0JBAA000345	IC, LOGIC	1
Q 901		B1GBCFJN0037	TRANSISTOR	1
R 903		ERJ3GEYJ101V	RESISTOR, 1/16W, 100Ω	1
SW 900, 901		K0L1BA000115	SW	2
SW 902		K0D113B00081	SW	1
BLUETOOTH PCB				<u> </u>
C 1201, 1202		EEFUD0J151ER	CAPACITOR, 6.3V, 150µF	2
C 1203, 1206, 1213		F1G1C104A042	CAPACITOR, 16V, 0.1µF	3
C 1204, 1210		F1G1E103A062	CAPACITOR, 25V, 0.01µF	2
C 1205		F1J0J106A016	CAPACITOR, 6.3V, 10µF	1
C 1207, 1209	<del>                                     </del>	F1G1H102A496	CAPACITOR, 50V, 1000pF	2
C 1212		F1G1H6R0A544	CAPACITOR, 50V, 6pF	1
C 1214		ECJ0EC1H0R5C	CAPACITOR, 50V, 0.5pF	1
CN 1201		K1MN24BA0070	CONNECTOR	1
CN 1201 CN 1202, 1203		K1FY104BA024	CONNECTOR USB	2
D 1201, 1202	-	B0KB00000044	DIODE	2
IC 1201, 1202			IC, FET SWITCH	1
IC 1201	Δ.	C0JBAZ002422	BLUETOOTH MODULE	
	Δ	N5HZZ0000040		1
IC 1203		C0EBE0000460	IC CONNECTOR	1
KJ 1201		K1QZA1AE0001	CONNECTOR	1
L 1201, 1202		J0MAB0000116	INDUCTOR	2
L 1203, 1204, 1205, 1206		J0JHC0000074	INDUCTOR	4
L 1207		J0JJC0000015	INDUCTOR	1
L 1209		J0MAB0000200	INDUCTOR	1
L 1210	ļ	G1C10NJA0024	INDUCTOR	1
Q 1201		B1GBCFNN0042	TRANSISTOR	1
Q 1202		B1DHDC000028	TRANSISTOR	1
R 1201, 1202		ERJ2GEJ104X	RESISTOR, 1/16W, 100KΩ	2

R 1203	ERJ2GE0R00X	RESISTOR, 1/16W, 0Ω	1